STATE OF CALIFORNIA
The Resources Agency

Department of Water Resources

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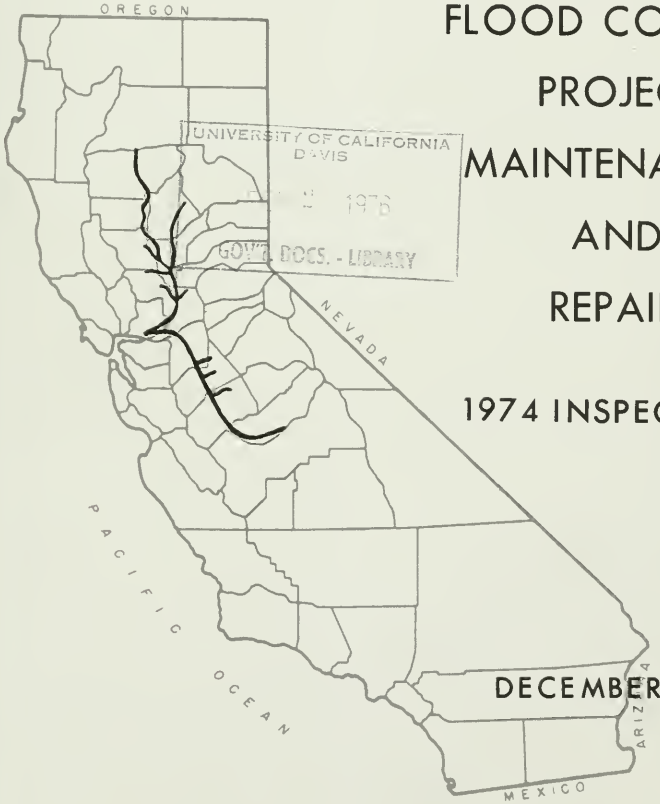

FLOOD CONTROL PROJECT MAINTENANCE AND REPAIR

1974 INSPECTION REPORT

DECEMBER 1975

CLAIRE T. DEDRICK
Secretary for Resources
The Resources Agency

EDMUND G. BROWN JR.
Governor
State of California

RONALD B. ROBIE
Director
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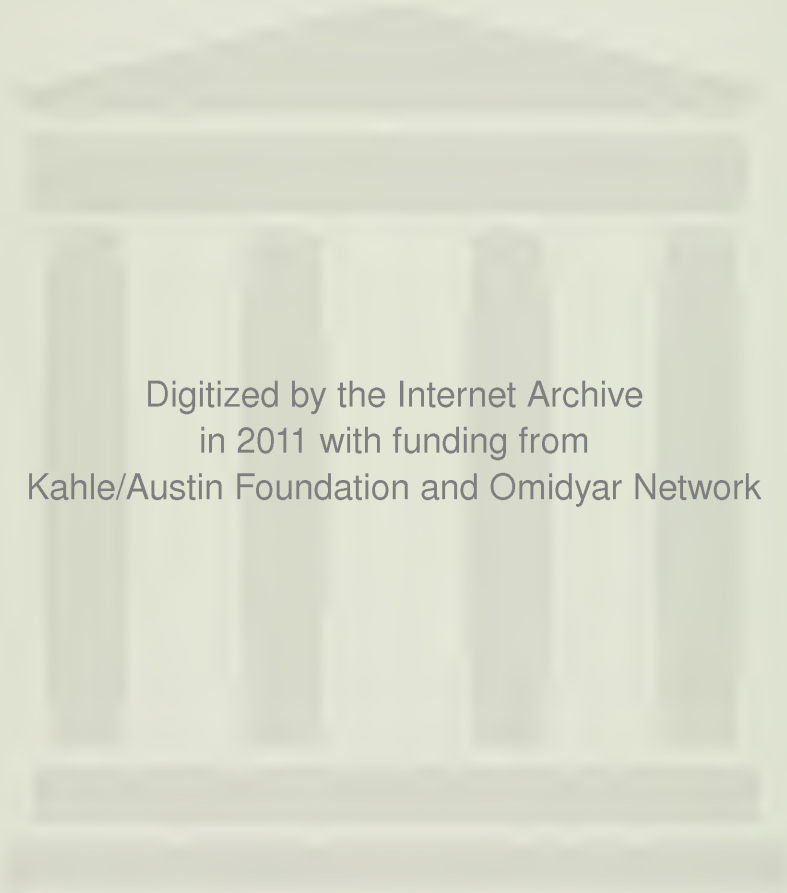

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Table 1. SUMMARY OF MAINTENANCE RATINGS BY PROJECT

Project	Levee and Bank Protection Miles	Maintenance Rating (Percent of Miles)		
		Good	Fair	Poor
Sacramento River and Tributaries Flood Control*	1,071.5	93	7	0
American River	8.3	[illegible]	[illegible]	
San Joaquin River & Tributaries	1[illegible].5	[illegible]	[illegible]	
Calaveras River, Bear Creek, Littlejohns Creek & Tributaries	1[illegible]4.[illegible]	[illegible]	[illegible]	[illegible]
Merced County Stream Group	[illegible].3	10[illegible]		[illegible]
Fresno County Stream Group	[illegible].3	10[illegible]		
Middle Creek, Lake County	14.[illegible]	1[illegible]	[illegible]	
Lower San Joaquin Flood Control	1[illegible]1.[illegible]	[illegible]	[illegible]	
Kings River Flood Control	115.[illegible]	[illegible]	[illegible]	—
Total	1,671.[illegible]	[illegible]	[illegible]	

*Includes areas where there is only bank protection.

Table 2. SUMMARY OF OVERALL MAINTENANCE RATINGS

Maintaining Agency	Rating
Reclamation Districts No. 1[illegible], 2035, [illegible], Sutter County, City of Marysville, State of California (Cache Creek, Wadsworth Canal, Sutter Bypass, West Levee Yolo Bypass, East Levee Yolo Bypass	Outstanding
Levee Districts No. 1, [illegible], Glenn County; 1 and [illegible], Sutter County	Good
Reclamation Districts No. 1, 3, 1[illegible], 17, [illegible], 1[illegible], 1[illegible], 341, [illegible], [illegible]1, [illegible]36, [illegible], [illegible]51, 5[illegible]4, [illegible], 755, 777, 784, [illegible], 787, 81[illegible], [illegible]7, [illegible], [illegible], 100[illegible], 1001, 1600, 1601, 150[illegible], 160[illegible], [illegible], [illegible], [illegible], [illegible], [illegible], [illegible], 2089, [illegible]1, 20[illegible], [illegible], [illegible], [illegible], [illegible], [illegible], [illegible], 2101, [illegible], 2103, 2104	
American River Flood Control District	
Brannan-Andrus Levee Maintenance District	
City of Sacramento	
[illegible]tern Ho[illegible]ut Area	
Fresno County Stream Group	
Kings River Flood Control District (Kings River)	
Knights Landing Ridge Drainage District	
Lake County Flood Control District	
Lower San Joaquin Levee District	
Merced County Stream Group	
Placer County (Truckee River)	
Sacramento River West Side Levee District	
San Joaquin County Flood Control District	
State of California (Sacramento River East Levee, West Levee [illegible], Feather River, Sacramento Bypass, Tisdale Bypass, Putah Creek, Willow Slough Bypass)	
State of California (Maintenance Areas No. 1, [illegible], 4, [illegible], [illegible], [illegible], [illegible], 1[illegible], 11, 1[illegible], 13)	
Levee District No. [illegible], Glenn County	Fair
Reclamation Districts No. 307, 349, 404, [illegible], [illegible]56, [illegible], [illegible], [illegible]	
Solano County (Yolo Bypass)	
Tehama County Flood Control District	
Reclamation Districts No. 544, [illegible]107	Poor

LEVEE MAINTENANCE

Each spring and fall since 1947, the Department of Water Resources has rated the quality of maintenance on flood control levees and channels operated under cooperative state and federal agreements in the Sacramento and San Joaquin Valleys and in Lake and Placer Counties. The current fall ratings are summarized in Tables 1 and 2. The consecutive annual ratings for the past 20 years are summarized in Table 3. Tables 4 and 5 show the quality of levee maintenance during the most recent fall inspection and the progress made since the previous spring inspection.

On completion of the spring and fall reports, Department personnel, together with representatives of each local agency for levee maintenance, inspect the project levees, discuss maintenance regulations, and study levee areas urgently needing repairs. Agency representatives receive inspection sheets listing work required to bring the levees into compliance with federal regulations.

Maintenance ratings pertain only to maintenance performance and not to the stability of the levee.

Outstanding maintenance work is in complete accord with federal regulations.

Good maintenance work varies only in minor instances from federal regulations.

Fair maintenance work, although generally acceptable, varies considerably from federal regulations.

Poor maintenance indicates that little or no maintenance work has been performed and that the agency is not fulfilling its maintenance obligation. It does not necessarily imply impaired levee stability.

Some examples of poor maintenance are (a) failure to add gravel where needed and to shape crown roadways for proper drainage during wet weather; (b) failure to remove improperly sealed abandoned pipes, inoperative pipes, and leaky pipes; (c) failure to eliminate unauthorized grazing and vehicular traffic; (d) failure to burn, spray, or mow grass and weeds, and (e) undesirable growth on levee slopes and rock revetments. Spring or fall spraying with selected herbicides and late summer burning will remove such growth and permit detection and repair of burrow holes, caves, sloughing, and types of damage not readily visible.

Maintenance ratings are based on the following 12 factors:

1. District Maintenance Program

Has the agency initiated a definite maintenance program with a set budget? A properly maintained district establishes such a program and budget each year.

2. Readiness for Flood Emergency

Has the agency organized a definite plan to combat a flood situation effectively? Has one person been appointed to supervise and to carry out the plan?

Does the agency stockpile such standard floodfighting equipment as sacks, burlap, canvas, and hand tools? Does it have access to portable radios for communication during levee patrolling? Only a permanently operating organization, properly equipped, can make repairs and direct supplementary forces during emergencies.

3. Adequate Levee Section and Grade

Does the levee system meet section and grade standards? Design standards are based on experience gained from levee construction on the Sacramento and San Joaquin Rivers flood control projects.

Levee design standards are summarized as follows: All crowns are no less than 20 feet wide along the Old Sacramento River, Yolo and Sutter Bypasses, major Sacramento River tributaries, and the downstream portion of the San Joaquin River and Paradise Cut.

All crowns are no less than 12 feet wide along minor Sacramento River tributaries; Old River; Bear Creek; and the Eastside, Mariposa, and Chowchilla Bypasses.

All landward slopes are 1:2; all waterward slopes are 1:3. All freeboard is 3 feet, except along bypasses. Freeboard is 4 feet along the Eastside, Mariposa, and Chowchilla Bypasses, and 5 feet along the Yolo, Sutter, Colusa, Tisdale and Sacramento Bypasses.

4. Adequate Encroachment Control

Has the agency tried to prevent establishment of unauthorized encroachments or tried to remove existing unauthorized encroachments? Each agency must prevent the erection of structures on, additions to, or alterations of the levee, unless authorized by permit from The Reclamation Board.

This ruling is a part of both state and federal regulations. Before work begins on any excavation, building, pipeline, poleline, or other structure in, under, on, along, or near any

levee or any related fill, berm, overflow or flood area, the districts, agencies, and individuals must file with The Reclamation Board an application in triplicate, complete with construction plans, and receive a board order authorizing such work. Failure of an agency to control unauthorized encroachments will increase the cost of maintenance and threaten the integrity of a levee.

5. Control of Wild Growth

Has the agency cleared all willow, elderberry, locust, bamboo, and other wild or undesirable growth from both slopes and rock revetment?

Leaning trees or those with exposed roots are a hazard to the safety of the levee. Wind and wave action cause the larger growths to pull at their root systems, disturb the soil or rock revetment, and sometimes uproot themselves, thereby accelerating erosion. Fallen trees accumulate drift and direct erosive currents against the levee banks. The sheltering roots of large trees attract burrowing animals. Brush growth prevents proper inspection or detection of trouble spots. Removal of trees and brush promotes the growth of a sod with pliable roots that bind the soil.

6. Rodent Control

Has the agency established an effective program for exterminating burrowing animals? Do maintenance crews periodically inspect levee slopes to exterminate rodents? Contrary to general belief, burrowing rodents can and do infest sand levees as well as those composed of heavier soils. Many of the sand levees, indeed, consist of a sand cover topping an older soil levee. Some of the older pipe structures, especially those without cutoff walls, permit rodents to excavate noncaving burrows immediately under the pipe. To ensure the safety of the levee during flood periods, burrowing animals must be exterminated persistently. Their eradication is an extremely difficult task that can be accomplished only by constant effort. A levee cleared of vegetation makes it easier to perform this work. Care should be exercised to avoid poisoning birds and other desirable wildlife.

7. Repair of Cracks, Burrows, Rainwash

Has the agency made all the necessary repairs to cracks, burrows, or rainwash damage on the levee slopes? Such damage endangers levees.

8. Repair of Erosion and Caving

Has the agency repaired eroded and caved areas along banks and levees? Early repairs of damaged areas eliminate the necessity of major bank protection work and levee repair later on.

9. Condition of Rock Revetment

Has the agency controlled or removed wild growth from the revetment? Has the agency repaired areas where the revetment has been displaced or damaged?

Although damage to existing revetment works is rare, that which has occurred results chiefly from lack of maintenance. Control of growth is important because trees and brush can damage or displace revetment. Early detection and prompt repair of damage will reduce restoration costs. Often a simple rearrangement of stones or cobbles will produce the desired result. Occasionally, additional rock must be placed at damaged locations.

10. Condition of Crown Roadway and Gates

Has the agency shaped the crown roadway to provide proper drainage during wet weather? Have ruts been filled and has gravel been added to provide proper access at all times for maintenance, patrolling, and floodfighting vehicles? Are all gates maintained and repaired to control access by unauthorized vehicular traffic?

A roadway unusable either for normal maintenance or for floodfighting prevents early detection and repair of levee damage and thus threatens the entire levee system.

11. Control of Livestock Grazing

Has the agency properly controlled unauthorized stock grazing on the levee slopes and insured repair of any stock-damaged sections?

This is the most controversial of the regulations. Use of a levee for grazing is not a proprietary right. When permitted, it should be carefully watched. It should be tolerated only under the control (by permit) of the responsible district authority. Those who abuse the privilege may be barred from so using a levee. The local district is responsible for repairing a levee damaged by over-grazing.

12. Condition of Pipes (if applicable)

Do debris and other obstructions prevent proper operation of the pipe? Does the pipe show evidence of damage, settlement, or rust holes? Is the metal sound? Do all gates and valves operate properly? Have cracks occurred in the headwalls? Does erosion adjacent to the pipe endanger water tightness or stability of the structure?

Each structure situated through, in or on the levee should be examined for stability at least once yearly. All component parts should be examined for effectiveness of operation and

reliability. New structures should be installed or older structures repaired only in accordance with adopted standards and under the supervision of qualified personnel. Defective structures should be repaired, replaced or removed immediately.

MAINTENANCE PROBLEMS

The recent emphasis on air pollution control has resulted in state laws and county ordinances which control or prohibit open burning. The state law that designates "burn days" restricts open burning of brush and weeds on the levee slopes and crown. The county ordinances differ and in some cases practically eliminate the possibility of removing obnoxious materials from the levees by burning. These effects are particularly noticeable in Sacramento, San Joaquin, Placer and Fresno Counties.

An unforeseen by-product of air pollution control is the dumping of household trash and garbage along the levees and streambanks. This results from the inability of residents of large metropolitan areas to dispose of their refuse by open burning in backyard incinerators. They therefore resort to disposing of such refuse by dumping it along the levees.

Control of obnoxious wild growth, by the use of herbicides, is coming under attack by the ecologists. Already the use of the brush killer 2-4-5-T has been prohibited along the levees and streambanks and the large acreages being planted to grape vineyards is restricting the practical use of the "Broad Leaf Killer" 2-4-D, and it is probable that other herbicides will be withdrawn from use, or restricted or regulated so that their use becomes impractical.

The Corps of Engineers is now either leaving wild growth on the levees and berms or planting shrubs and trees. The Corps of Engineers now condones the growth of trees to a diameter of 2 inches in the rock revetment along the streambanks.

With all of these problems, which require changes in maintenance procedures, there has been no corresponding change in the Corps of Engineers' Manual of Standard Operations and Maintenance of the Flood Control Projects. The manual is the basis for the ratings in this bulletin, and the Department of Water Resources has no authority to change, modify or relax the maintenance requirements for the various flood control projects until such changes are sanctioned by a revision of the manual.

AREAS WITHOUT MAINTENANCE DISTRICTS

Only one area remains within the Sacramento and San Joaquin Rivers flood control project which lacks a local organized district.

Eastern Honcut Creek Area

In this area, 1.49 miles of levee reconstructed by the U. S. Army Corps of Engineers extends easterly along the left bank of Honcut Creek from the Western Pacific Railroad tracks to high ground.

The local landowners maintain this levee in "good" condition and in general conformance with federal and state regulations. However, there is no organization to contact regarding floodflows or to undertake a floodfight if necessary.

AREAS ORDERED BY THE RECLAMATION BOARD TO IMPROVE THEIR MAINTENANCE

During October 1968, Reclamation Districts No. 307 and 349 were requested to appear before The Reclamation Board to discuss their maintenance deficiencies. The Board requested each district to submit a written, multi-year program to bring their maintenance to acceptable standards.

The annual spring inspection of 1972 revealed little, if any, improvement of the maintenance within these two districts.

Therefore, the Department, under provisions of Section 12878 of the Water Code, filed a "finding of lack of maintenance" with The Reclamation Board in July 1972. On September 8, 1972, The Reclamation Board held a hearing on the formation of a maintenance area to accomplish the required maintenance within these two districts. At this meeting The Reclamation Board accepted a new maintenance program submitted by the two districts and extended the time period for the two districts to bring their maintenance up to acceptable standards. The program was established for a 5-year period with provisions for review on a year-to-year basis.

Failure to comply with their program during any year could result in the formation of a maintenance area in the offending district.

Reclamation District No. 307

The work done during 1973 and 1974 by Reclamation District No. 307 has not been in exact compliance with its approved program, but in quantity and quality was acceptable in lieu of the proposed scheduled work.

At the time of the 1974 fall inspection, it appeared that Reclamation District No. 307 was approximately on schedule and if the maintenance effort is continued for the remaining 3 years, the district will be in compliance with federal and state maintenance standards.

Reclamation District No. 349

The work done by Reclamation District No. 349 has not been in exact compliance with its approved program and at the time of the 1974 fall inspection was found to be approximately 15 percent (15%) behind schedule. The necessary work appears to be accomplished on an "available time" basis by the local district. The "available time" approach does not permit an organized and orderly maintenance effort.

It will be necessary for Reclamation District No. 349 to provide a substantial effort during 1975 to bring its maintenance effort up to schedule.

Reclamation District No. 544

In addition to the above, Reclamation District No. 544 was called before The Reclamation Board on April 13, 1973, to present an acceptable program to upgrade levee maintenance. On August 23, 1974, the Department, under provisions of Section 12878 of the Water Code, filed a "finding of lack of maintenance" with The Reclamation Board. On January 23, 1975, The Reclamation Board held a hearing on the formation of a maintenance area with Reclamation District No. 544.

At this meeting The Reclamation Board accepted a maintenance program submitted by Reclamation District No. 544. The program was established for a 3-year period, with provisions for review on a year-to-year basis.

At the time of the 1974 fall inspection it was noted that considerable work under the program had already been accomplished.

AREAS OF NEEDED MAINTENANCE IMPROVEMENT

In 1974, there was one additional reclamation district in which the quality of maintenance was rated "poor". This is Reclamation District No. 2107, which has not complied with the federal regulations, Section 8370 of the Water Code, or the assurance agreements entered into with the State of California.

Reclamation District No. 2107 (San Joaquin County Unorganized Area).

A reclamation district was formed over this area during 1972. In 1974, trustees were appointed to conduct the business of this district. During the 1974 fall inspection these trustees expressed their intent to embark on a maintenance program in order to comply with federal and state levee maintenance regulations.

LEVEE INSTABILITY

Reclamation District No. 108, Colusa Basin.

Severe subsidence first occurred in 1970-71 between levee miles 2.55 and 2.65. The levee was constructed by the Corps of Engineers in 1956. In 1972, material was added to the crown and waterward slope by the Reclamation District.

During the winter months of 1972-73, subsidence of varying depths occurred at the following locations; levee miles 1.72-1.75, 2.29-2.31, 2.60-2.72, 3.33-3.35, 3.82-3.89, 15.38-15.40, and 15.63-15.65. Several areas had subsidence of 6 to 8 feet in depth, necessitating closure and abandonment of the county road. The district placed fill in most of these areas in 1973. However, the subsidence continued and the Corps of Engineers in 1974 reconstructed the levee in the most severe areas of subsidence between levee miles 1.68-1.78 and 2.51-2.76.

Reclamation District No. 341, Sherman Island.

Subsidence has occurred between levee miles 8.90 and 9.68, since reconstruction of the levee in 1954. In an attempt to stabilize it, new material has been placed and the levee section reshaped several times. In 1964, the Corps of Engineers enlarged and shaped the levee, placed stone protection on the waterward slope, and graveled the crown roadway. In 1969 the levee was reshaped and the crown roadway regraveled between levee miles 8.90 and 9.44. Additionally, minor remedial work was performed between levee miles 9.44 and 9.68.

The district placed fill and rock in several areas in 1974. During the 1974 inspections, subsidence of varying depths was noted between levee miles 8.99-9.02, 9.19-9.23, 9.25-9.34, 9.36-9.41, and 9.56-9.68.

Reclamation District No. 787, Colusa Basin.

During the winter months of 1972-73, severe subsidence occurred between levee miles 2.23-2.25, and 4.16-4.18. The levee was constructed by the Corps of Engineers in 1956.

The Corps of Engineers in 1974 reconstructed the levee sections at the two areas noted above. During the 1974 fall inspection, no new levee subsidence was noticed.

Reclamation District No. 1601, Twitchell Island.

Subsidence has occurred between levee miles 0.51 and 1.54, since construction of the levee by the Corps of Engineers in 1954. Material has been added to the crown and landward slope from time to time. Also, rock has been placed on the waterward slope. In 1973, the Corps of Engineers placed material on the landside and crown of the levee and graveled the roadway between levee miles 0.95-1.02.

Although there is activity, the rate of subsidence appears to have lessened. During the 1974 fall inspection, subsidence of varying depths was noted between levee miles 0.51-0.55, 0.62-0.71, 0.75-0.77, 0.81-0.84, 1.14-1.20, and 1.50-1.54.

Reclamation District No. 2098, Cache-Haas Slough Area.

Due to the instability of the levee sections between levee miles 3.62 and 4.43, Unit No. 1, and levee miles 4.43 and 4.58, Unit No. 2, the Corps of Engineers has not transferred these sections to the State of California for operation and maintenance. Condition of the areas, both within the Corps' responsibility and within the local district's responsibility, is basically unchanged since 1971 when fill material was added to the slopes and the levee crown was reshaped.

The location and amount of subsidence are as follows:

Unit No. 1 - Right Bank Yolo Bypass.

There has been no visible change in the location or the amount of subsidence in this unit during the past year. A total of 0.23 mile of subsidence remains between levee miles 3.46 to 4.34, varying from 0.5 to 2.0 feet below project grade.

Unit No. 2 - Left Bank Cache Slough.

The district repaired many of the subsidence areas in this reach during 1974. However, continued subsidence of some of the repaired areas and the addition of some new areas resulted in a total of 0.74 mile of levee subsidence, approximately the same as in the fall of 1973.

During 1974 the Corps of Engineers dredged material from Cache Slough and placed it along the levee slopes between levee miles 4.49 and 4.99. The material was left in its rough condition to dry out. The Corps of Engineers plans to spread and shape this material during 1975.

Reclamation District No. 2098 is continually repairing subsiding areas but many of the repaired areas remain active and new areas are constantly appearing.

LEVEE ENCROACHMENTS

Expanding urban and recreational development in California has increased the number of encroachments and threatened the integrity of the flood control system of the Sacramento and San Joaquin Valleys.

In 1974 the levee and designated floodway inspection unit inventoried and categorized 2,307 encroachments on 304.8 miles of levee within Levee Districts No. 1, 2 and 3, Glenn County; Reclamation Districts No. 70, 536, 1500, 1660, 2035, 2060, 2068, 2095 and 2104; Solano County at Yolo Bypass; Yolo County at Cache Creek; East Levee Sacramento River; Tisdale Bypass; West Levee Yolo Bypass; Cache Creek and Settling Basin; Willow Slough; Putah Creek and Maintenance Area No. 1. The categorized list was approved by The Reclamation Board.

Additionally, 371 miles of designated floodway on the following streams were inspected: Ash Slough, Berenda Slough, Chowchilla River, Colusa Basin Drain, Dry Creek at Modesto, Feather River, Kings River, Merced River, Sacramento River and the Tuolumne River. This inspection resulted in an inventory of 829 additional encroachments for Reclamation Board action.

The Levee Surveillance Section reviewed 501 encroachment applications during 1974.

Section 8710 of the California Water Code requires Reclamation Board approval of all plans for encroachment. Prior to approval, the Board studies recommendations of the Department of Water Resources and the Corps of Engineers relating to engineering, maintenance, and flood control aspects of the encroachments. Following Board approval, the Department of Water Resources inspects construction to ensure conformance with the approved plans. Each local agency for levee maintenance should make every effort to police its own system to control unauthorized encroachments.

LEVEE CONSTRUCTION

During 1974, the Corps of Engineers, the State of California and individual reclamation districts completed levee construction and reconstruction, patrol roads, bank protection, turnouts, and channel improvement work on a number of projects. Table 7 reports this activity.

FLOOD CONTROL PROJECT STRUCTURES

The Department of Water Resources, during the fall of each year, inspects weirs, pumping plants, drop structures, and control structures constructed by the Corps of Engineers and the State of California as part of the flood control works. Table 8 is a summary of the present condition of each structure.

CHANNEL MAINTENANCE

The Department of Water Resources inspects channels and floodways of streams in the Sacramento and San Joaquin Valley flood control projects and the Middle Creek and Truckee River flood control projects to determine the amount of the channel floodway acreage cleared by the Department and others. Such inspection ensures elimination of conditions which adversely affect capacity of the channel, integrity of the flood control system, and floodflow velocities. Table 9 lists each stream, the acreage cleared during the current year and the ability of each channel to carry the floodflow satisfactorily.

Table 3. TWENTY-YEAR LEVEE MAINTENANCE RECORD, 1955-1974

Maintaining Agency	Miles	Maintenance Ratings, by year (Multi-unit district ratings are composite)																		
		55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
Levee Districts		SACRAMENTO VALLEY STREAMS																		
1 - Glenn County	12.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G	G	G	G	G	G
1 - Sutter County	16.7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	F	G	G	G
2 - Glenn County	4.9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
5 - Glenn County	12.2	F	P	P	F	P	F	P	F	G	G	G	G	G	G	G	G	G	G	F	G
9 - Sutter County	6.2	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Reclamation Districts																				
3 - Grand Island	28.6	P	P	P	F	F	G	G	G	F	F	F	F	F	F	F	G	G	G	G	G
10 - Simmerly	21.9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
70 - Meridian	23.6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
108 - River Farms	20.6	G	F	G	G	G	G	G	G	G	G	G	G	G	G	F	G	G	G	G	G
150 - Meritt Island	18.1	F	P	F	P	P	F	F	F	F	F	F	F	F	F	F	F	G	G	F	G
307 - Lisbon	6.7	P	P	P	F	P	F	F	P	P	P	P	P	P	F	F	F	P	P	F	F
341 - Sherman	9.7	P	P	P	P	P	G	G	G	F	F	G	F	F	G	G	G	G	G	G	G
349 - Sutter	12.6	P	P	P	P	P	F	F	P	P	F	P	F	P	P	F	G	P	F	F	G
369 - Libby-McNeill	7.8	P	P	P	P	P	P	P	F	P	P	P	P	P	P	F	F	F	F	G	G
501 - Ryer Island	20.5	G	G	G	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
536 - Egbert	10.7	P	G	G	G	F	G	G	G	F	F	F	G	G	G	G	G	G	G	G	G
537 - Lovdal	6.1	F	G	G	G	G	F	G	G	G	F	1/	G	G	G	G	G	G	G	G	G
681 - Pearson	6.8	P	P	F	P	P	F	F	F	P	F	F	F	G	G	G	G	G	G	G	G
704 - Walnut Grove	1.2	P	P	G	F	G	F	F	P	P	F	P	P	P	F	F	F	F	G	G	F
840 - Upper Andrus	11.2	P	F	P	P	P	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
563 - Tyler Island	12.4	P	G	F	F	F	F	F	F	G	F	F	F	F	F	F	F	F	F	F	G
785 - Randall	1.9	P	P	F	P	F	F	P	P	P	F	F	F	F	G	G	G	G	G	F	G
785 - Glide	1.7	P	P	F	P	P	F	F	P	P	G	G	F	F	F	F	F	F	F	F	G
777 - Live Oak	4.1	P	G	G	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
784 - Plumas Lake	32.5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
785 - Driver	5.7	F	F	G	F	F	F	F	F	G	F	F	F	F	F	F	F	G	G	G	G
787 - Fair	4.4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
817 - Carlin	7.7	F	P	F	G	F	F	F	G	G	G	G	F	F	G	G	G	G	G	G	G
817 - Elkhorn	4.2	P	P	F	F	P	P	F	F	P	P	F	P	P	F	F	F	G	G	G	G
900 - West Sacramento	13.7	P	P	G	F	F	F	F	F	F	G	G	G	G	G	G	G	G	G	G	G
744 - Netherlands	35.3	F	F	G	F	F	F	F	F	G	F	F	F	F	F	F	F	G	G	G	G
1000 - Natomas	42.6	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
1001 - Nicolaus	44.1	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
1 000 - Sutter Basin	54.4	G	G	G	G	G	G	G	G	O	O	O	O	O	O	O	O	O	O	G	G
1600 - Mull	14.7	G	G	G	F	F	F	F	F	F	F	F	F	G	G	G	G	G	G	G	G
1001 - Twitchell	5.5	G	G	G	G	G	F	G	G	G	F	F	F	F	F	F	F	F	G	G	G
1060 - Tisdale	12.1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
2035 - Conaway	12.1	G	G	G	G	G	G	G	G	O	O	O	O	O	O	O	O	O	O	O	O
1000 - Hastings	16.0	F	G	G	G	G	G	G	G	F	G	G	G	F	G	G	G	G	G	G	G
1068 - Yolano	8.7	P	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	O	O	G
2098 - Reclamation Area	12.1	P	P	P	P	P	P	P	F	F	G	G	G	G	G	G	G	G	G	G	G
2103 - Wheatland	9.8	P	P	P	P	P	P	P	P	P	P	1/	P	P	F	F	F	G	G	G	G
1004 - Peters Pocket	7.4	P	P	P	P	P	P	F	F	1/	F	F	F	G	G	F	F	F	F	F	G
Named Districts																				
American River FCD	44.1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Brannan-Andrus LMD	19.3	-	-	-	-	-	-	-	-	-	-	-	-	-	G	G	G	G	G	G	G
Butte County Chico, Mud & Sandy Creeks	24.4	-	-	-	-	-	-	-	-	-	-	G	G	G	O	O	O	O	O	O	O
City of Marysville	11.4	G	G	G	G	G	G	G	G	O	O	O	O	O	O	O	O	O	O	O	O
City of Sacramento	3.6	G	G	G	G	G	G	G	F	G	G	G	G	G	G	G	G	G	G	G	G
Eastern Honcut Creek Area (unorganized)	1.6	F	F	F	P	P	P	P	P	P	P	P	P	P	F	F	F	F	F	F	G
Knights Landing Ridge Drainage District	12.5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	F	P	F	G
Sacramento River West Side Levee District	50.2	F	F	G	G	G	F	F	F	F	F	G	F	G	G	G	G	G	F	F	G
Solano County, Yolo Bypass	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1/	G	F	F	G
Tehama County, Deer Creek	6.9	F	F	F	F	P	P	F	G	F	F	F	F	G	F	F	G	G	G	G	G
Tehama County, Elder Creek	8.1	-	-	-	-	-	-	G	G	G	F	G	F	G	F	G	G	G	G	F	G
Tehama County, Sacramento River (Rock Sites)	4.5	-	-	-	-	-	-	-	-	-	F	G	G	G	G	G	G	G	G	F	G
Yolo County Cache Creek	0.3	-	-	-	-	-	-	G	G	F	F	G	G	G	G	G	G	G	F	F	G
State of California																				
Sacramento River East Levee Colusa County	26.8	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
East and West Levee Wadsworth Canal	9.4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	O	O	O	O
East Levee Sutter Bypass	22.4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	O	O	O
West Levee Feather River Hamilton Bend	3.4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Cache Creek & Settling Basin	26.3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	O	O	O	O

Symbols express the following maintenance ratings:
O - Outstanding F - Fair
G - Good P - Poor
1/Not inspected; reconstruction

Table 3. TWENTY-YEAR LEVEE MAINTENANCE RECORD, 1955-1974 (continued)

Maintaining Agency	Miles	Maintenance Ratings, by year (Multi-unit district ratings are composite)																			
		55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
State of California (Cont'd)		SACRAMENTO VALLEY STREAMS (Continued)																			
North and South Levee Sacramento Bypass	3.6	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
West Levee Yolo Bypass	9.3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
East Levee Yolo Bypass	2.0	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	O	O
North and South Levee Willow Slough Bypass	12.5	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
North and South Levee Putah	16.3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
North and South Levee Tisdale Bypass	9.0	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Maintenance Areas																					
1 (RD 2047)	17.1	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
3 (RD 803-823)	5.2	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
4 (RD 811 & Wash. LD)	3.4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
5 (Butte Creek)	31.9	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
6 (RD 73 & Knights Landing Area)	6.0	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
7 (Drainage District 1 & Unorganized)	12.1	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
9 (East Levee Sacramento River Sc.-Sacramento)	19.6	-	F	G	G	F	G	F	F	F	F	F	G	G	G	G	G	G	G	G	G
10 (North Levee American River)	4.3	-	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
11 (RD 2047 & Unorganized)	4.0	-	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
12 (Colusa Basin Drain)	11.3	-	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
13 (Cherokee Canal Butte County)	42.0	-	-	-	-	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Reclamation Districts		SAN JOAQUIN VALLEY STREAMS																			
1 - Union Island	1.5	-	-	-	P	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
17 - Mossdale	16.2	-	-	-	F	F	G	G	1/	G	G	G	G	G	G	G	G	G	G	G	G
404 - Boggs	4.1	-	-	-	P	P	P	P	G	G	F	F	F	F	F	F	F	F	F	F	F
524 - Mid Roberts Island	6.3	-	-	-	P	P	F	F	1/	G	F	F	F	F	F	F	F	F	F	F	F
544 - Upper Roberts Island	10.3	-	-	-	P	P	P	P	1/	F	F	F	F	F	F	F	P	F	P	P	P
1602 - Del Puerto	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1/	G	G
2031 - Elliott	13.2	-	-	-	-	-	-	-	-	-	-	-	1/	G	F	G	G	G	G	G	G
2058 - Pescadero	6.7	-	-	-	P	P	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
2062 - Island	12.2	-	-	-	P	F	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
2063 - Crows Landing	10.6	-	-	-	-	-	-	G	F	G	G	G	G	G	G	F	G	G	F	F	F
2064 - River Junction	11.9	-	-	-	F	G	G	G	F	F	G	G	1/	1/	G	F	P	P	F	F	F
2075 - McMullin	7.5	-	-	-	P	P	G	G	G	G	G	G	1/	1/	G	G	G	G	G	G	G
2086 - Kasson	6.2	-	-	-	-	-	-	-	-	-	-	-	-	1/	G	F	G	G	G	G	G
2089 - Stark	2.2	-	-	-	P	P	F	1/	F	P	F	F	F	F	G	G	G	G	G	G	G
2091 - Chase	7.0	-	-	-	-	-	-	G	F	P	F	F	F	P	F	F	F	F	F	G	G
2092 - Dos Rios	3.5	-	-	-	-	-	-	G	F	F	F	F	F	F	F	P	P	P	F	G	G
2094 - Walthall	3.3	-	-	-	-	-	-	-	-	F	G	G	G	G	G	F	G	G	G	G	G
2095 - Ferguson Junction	4.2	-	-	-	P	P	P	F	P	P	P	P	P	P	F	P	F	P	G	G	G
2096 - Weatherbee Lake	6.1	-	-	-	-	-	-	-	-	-	G	G	G	G	G	G	G	P	G	F	G
2099 - El Nido Ranch	2.4	-	-	-	-	-	-	-	-	-	-	-	1/	F	G	G	G	G	G	F	G
2100 - White Lake Ranch	6.7	-	-	-	-	-	-	-	-	-	-	-	1/	G	G	G	G	G	G	G	G
2101 - Elsewett	3.6	-	-	-	-	-	-	-	-	-	-	-	1/	G	G	G	G	G	G	G	G
2102 - Lara Ranch	1.5	-	-	-	-	-	-	-	-	-	-	-	1/	F	G	G	G	G	G	G	G
2107	4.2	-	-	-	P	P	P	P	F	P	P	P	F	F	F	P	F	P	P	P	P
Named Districts																					
Fresno County Stream Group (Fresno Irrigation Dist.,	9.2	G	G	G	F	G	G	G	G	F	F	F	G	G	G	G	G	G	G	G	G
Lower San Joaquin Levee District	191.5	-	-	-	-	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Merced County Stream Group (Merced Irrigation Dist.'	6.5	-	-	-	P	F	G	G	G	F	F	G	G	G	G	G	G	G	G	G	G
San Joaquin County Flood Control Dist. Bear Creek	46.7	-	-	-	-	-	-	-	-	-	1/	G	G	G	G	G	G	G	G	G	G
San Joaquin County Flood Control Dist. Littlejohns & Duck Creek Diversions	6.4	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
San Joaquin County Flood Control Dist. Mormon Slough	31.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G	G	G
Lake Tahoe Flood Control District-Middle Creek	14.5	-	-	-	-	-	G	G	G	G	F	G	G	G	G	G	G	G	G	G	G
Placer County-Truckee River	0.0	-	-	-	-	-	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Kings River Flood Contrl District-Kings River	115.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	G

Symbols express the following maintenance ratings:
O - Outstanding F - Fair
G - Good P - Poor
1/Not inspected; reconstruction.

Table 4. PROJECT LEVEE MAINTENANCE ON SACRAMENTO VALLEY STREAMS IN 1974

District or area	Unit number	Stream	Bank		Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works														Overall ratings		Remarks
			Rt	Lt		District maintenance program	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Interceding (including road)	Control of weed growth: Landside	Rodent control	Repair of cracks, burrows & animals	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & gates	Control of livestock pasturing	Condition of pipes		Progress	Maintenance	
Levee Districts																						
No. 1 Glenn County		Sacramento	X		12.4	G	G	G	G	G	G	G	G	F	G	F	G	G		G	G	
No. 1 Sutter County		Feather	X		16.7	G	G	G	G	G	G	F	F	G	G	G	G	G		G	G	Maintenance has improved.
No. 2 Glenn County		Sacramento	X		4.9	G	F	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 3 Glenn County		Sacramento		X	12.2	F	F	G	F	F	F	G	G	G	G	G	G	G		F	F	Maintenance needs improvement.
No. 9 Glenn County		Feather	X		6.3	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
Reclamation Districts																						
No. 3	1	Steamboat Slough		X	11.0	G	G	G	G	F	G	G	G	F	G	G	G	G		G	G	
	2	Sacramento	X		17.6	G	G	G	G	F	G	G	G	F	G	G	G	G		F	G	
No. 10	1	Simmerly Slough	X		7.7	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
	2	Feather		X	11.3	G	G	G	G	G	G	G	G	G	G	G	G	F		G	G	
	3	Honcut Creek		X	3.0	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 70	1	Sutter Bypass	X		6.0	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	Maintenance is very good.
	2	Sacramento		X	15.0	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 108		Colusa Drain		X	10.8	G	G	G	G	G	G	F	G	G	-	G	G	G		G	F	Some subsidence appearing in this levee.
No. 150	1	Sutter Slough		X	6.5	G	F	G	G	F	F	G	G	G	F	G	G	G		F	G	
	2	Sacramento	X		8.0	G	F	G	G	F	F	G	G	G	F	G	G	G		F	G	
	3	Elk Slough		X	9.6	G	F	G	G	F	G	G	G	G	-	F	F	G		F	F	This levee receives only backwater against it.
No. 307		Sacramento	X		1.7	G	F	G	G	F	F	F	G	G	F	G	G	G		F	F	
No. 341	1	Threemile Slough	X		3.3	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Sacramento		X	6.4	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	A portion of this levee is unstable.
No. 349	1	Sacramento	X		11.5	F	F	G	G	F	G	G	G	F	F	G	G	G		G	F	Maintenance in this district is showing continued improvement
	2	Steamboat Slough	X		4.4	F	F	G	F	F	F	G	G	F	F	G	G	G		G	F	
	3	Sutter Slough		X	6.6	F	F	G	F	F	F	G	G	F	F	G	G	G		G	F	
No. 369		Sacramento		X	9.8	G	F	G	G	G	G	G	G	F	F	G	G	G		G	G	
No. 501	1	Steamboat Slough	X		6.8	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Cache Slough		X	3.0	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	3	Miner Slough		X	7.8	G	G	G	G	G	G	G	G	G	F	G	G	G		G	G	
	4	Sutter Slough	X		3.3	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 536	1	Lindsey Slough	X		8.7	G	G	G	G	G	G	G	G	G	F	G	G	G		G	G	Some subsidence appearing in this levee.
	2	Yolo Bypass	X		6.0	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
No. 537	1	Sacramento	X		4.8	G	G	G	G	G	G	G	G	G	F	G	G	G		G	G	
	2	Yolo Bypass		X	1.3	G	G	G	G	G	G	G	G	G	F	G	G			G	F	
No. 551		Sacramento		X	6.8	G	G	G	G	F	F	G	G	G	F	G	G	G		G	G	
No. 554		Sacramento		X	1.7	G	G	G	G	F	G	G	G	G	F	G	-	G		F	G	
No. 556	1	Georgiana Slough	X		5.5	G	F	G	G	F	G	G	F	P	G	G	G	G		G	F	Maintenance in this district has improved.
	2	Sacramento		X	4.7	G	F	G	G	F	G	G	F	P	G	G	G	G		G	F	
No. 563		Georgiana Slough		X	12.4	G	G	G	G	G	G	F	G	P	G	G	G	G		G	G	Maintenance in this district has greatly improved.

Table 4. PROJECT LEVEE MAINTENANCE ON SACRAMENTO VALLEY STREAMS IN 1974 (cont)

District or area	Unit number	Stream	Bank Rt	Bank Lf	Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works: District maintenance program	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Control of wild growth: Waterside (including rock)	Control of wild growth: Landside	Rodent control	Repair of cracks, burrows & rainwash	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & gates	Control of livestock posturing	Condition of pipes		Overall ratings: Progress	Overall ratings: Maintenance	Remarks
Reclamation Districts																						
No. 755		Sacramento		X	1.9	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 76[illegible]		Sacramento	X		1.7	G	F	G	G	G	G	G	G	G	F	G	G	G		G	F	Maintenance is improving.
No. 777		Feather	X		4.1	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 784	1	Yuba		X	[illegible].3	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
		Feather		X	13.6	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	3	Bear	X		4.7	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	4	Interceptor Canal	X		5.3	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	5	Interceptor Canal		X	4.[illegible]	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	6	South Dry Creek	X		1.9	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	7	Yuba		X	3.[illegible]	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	Formerly M.A. #[illegible].
No. 785	1	Sacramento	X		2.4	F	F	G	G	F	F	G	G	G	F	G	G	G		F	G	
	2	Yolo Bypass		X	3.3	F	F	G	G	G	G	F	G	G	G	G	G	G		G	G	
No. 787		Colusa Drain		X	4.4	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	This levee is unstable.
No. 817	1	South Dry Creek		X	3.8	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Bear	X		3.9	G	G	G	G	G	G	G	G	G	F	G	G	G		G	G	
No. 827	1	Sacramento	X		1.4	G	F	G	G	F	G	G	G	G	G	F	G	G		G	G	
	2	Yolo Bypass		X	2.8	G	F	G	G	G	G	F	F	G	G	G	G	G		G	G	
No. 900	1	Sacramento	X		9.0	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Yolo Bypass		X	.7	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 999	1	Yolo Bypass		X	15.4	F	G	G	F	G	G	F	F	G	-	F	G	G		F	I	Levee does not receive floodwater against it.
	2	Miner Slough	X		2.3	F	G	G	F	F	G	G	G	F	G	G	G	G		G	G	
	3	Sutter Slough	X		3.7	F	G	G	G	F	F	G	G	G	G	G	G	G		G	G	
	4	Sacramento	X		1.2	F	G	G	G	G	G	G	G	G	G	G	G	G		G	G	Levee receives only backwater against it. Maintenance improved during 1973.
	5	Elk Slough	X		9.7	F	G	G	I	F	F	G	G	G	-	F	F	F		F	I	
No. 1000	1	Sacramento		X	18.6	G	G	G	F	G	G	G	G	F	G	G	G	G		G	G	
	2	American	X		2.3	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
	3	Natomas East Canal	X		17.3	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
	4	Natomas Cross Canal		X	4.4	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
No. 1001	1	Yankee Slough	X		4.2	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Yankee Slough		X	3.7	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	3	Bear		X	12.[illegible]	G	G	G	G	G	G	G	G	G	F	G	G	G		G	G	
	4	Feather		X	13.4	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	5	Natomas Cross Canal	X		5.4	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	6	Coon Creek Interceptor	X		4.8	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
No. 1500	1	Sacramento		X	33.6	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Sutter Bypass	X		20.8	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 1600	1	Sacramento	X		10.5	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Yolo Bypass		X	4.[illegible]	G	G	G	G	G	G	G	G	G	G	F	G	G		G	G	
No. 1601		Threemile Slough		X	[illegible]	G	G	F	G	G	G	G	F	F	G	G	G	G		G	G	This levee is [illegible]ally [illegible]iding.

Table 4. PROJECT LEVEE MAINTENANCE ON SACRAMENTO VALLEY STREAMS IN 1974 (cont)

District or area	Unit number	Stream	Bank		Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works														Overall ratings		Remarks
			Rt	Lt		District maintenance program	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Waterside (including rock)	Control of wild growth: Landside	Rodent control	Repair of cracks, burrows & animals	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & gates	Control of livestock grazing	Condition of pipes		Progress	Maintenance	
Reclamation Districts																						
No. 1600	1	Sacramento		X	3.0	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Sutter Bypass	X		9.1	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 2035	1	Cache Creek Settling Basin	X		3.0	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
	2	Yolo Bypass	X		7.6	G	G	G	[illegible]	[illegible]	G	G	G	G	-	[illegible]	G	G		[illegible]	G	
	3	Willow Slough Bypass		X	2.6	G	G	G	[illegible]	[illegible]	G	G	G	[illegible]	-	[illegible]	G	G		[illegible]	[illegible]	
No. 2060	1	Lindsey Slough		X	7.3	G	G	G	G	G	G	G	G	F	G	G	G	G		G	G	
	[illegible]	Ulatis Creek	G		3.7	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
	3	Cache Slough	X		7.1	G	G	G	G	G	G	G	G	F	G	G	G	G		G	G	
No. 2089	1	Yolo Bypass	X		3.5	G	[illegible]	G	[illegible]	G	G	G	G	[illegible]	-	G	G	G		G	G	
	2	Bank Levee		X	3.8	G	[illegible]	G	[illegible]	G	G	F	G	[illegible]	-	F	G	G		G	G	Mostly gravel or crown roadway.
No. 2094	1	Yolo Bypass	X		4.4	G	G	F	G	G	G	G	G	F	G	G	G	G		G	G	This levee is continually subsiding.
	2	Cache Slough		X	2.4	G	G	F	G	G	G	G	G	F	G	G	G	G		G	[illegible]	This levee is continually subsiding.
	3	Haas Slough		X	1.4	G	G	F	G	G	G	G	G	G	G	G	G	G		[illegible]	[illegible]	Subsidence appearing at this levee.
	4	Bank Levee		X	[illegible]	[illegible]	G	G	G	G	G	G	G	G	G	G	[illegible]	[illegible]		G	[illegible]	Subsidence appearing at this levee.
No. 2103	1	South Dry Creek		X	4.8	[illegible]	F	G	G	G	G	G	G	F	G	F	G	G		G	[illegible]	
	[illegible]	Bear	X		5.8	G	F	G	G	G	G	G	G	G	G	G	[illegible]	G		G	[illegible]	
No. 2104	1	Cache Slough		X	2.1	G	F	G	G	G	G	G	F	G	-	G	G	G		G	[illegible]	
	[illegible]	Haas Slough	X		4.3	G	F	G	G	G	G	G	F	G	-	G	G	G		G	G	
Named Districts																						
American River Flood Control District	1	Arcade Creek		X	[illegible]	G	G	G	G	G	[illegible]	G	G	[illegible]	G	[illegible]	[illegible]	G		G	G	
		Natomas East Canal		X	4.[illegible]	[illegible]	G	G	G	G	G	G	F	G	G	G	[illegible]	G		G	[illegible]	
	[illegible]	American	X		3.4	[illegible]	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	4	American		X	11.[illegible]	G	G	G	F	G	G	F	G	F	G	G	[illegible]	G		G	[illegible]	
	[illegible]	Sacramento		X	0.4	G	G	G	G	G	G	G	[illegible]	G	G	G	[illegible]	G		G	[illegible]	
	6	Linda Creek		X	1.3	G	G	G	G	G	G	G	G	G	G	[illegible]	G	G		G	G	
	[illegible]	Arcade Creek	X		1.[illegible]	[illegible]	G	G	G	G	G	G	G	G	G	[illegible]	[illegible]	[illegible]		[illegible]	G	
	8	Magpie Creek			1.[illegible]	G	G	-	G	G	-	G	G	G	G	F	[illegible]	[illegible]		[illegible]	G	Channel silty.
Brannan-Andrus Levee Maintenance District	1	Georgiana Slough	X		6.[illegible]	[illegible]	G	G	F	G	G	G	G	G	G	[illegible]	G	[illegible]		G	G	This levee was substantially rebuilt by the Corps of Engineers following the June 1972 flood.
	[illegible]	Sacramento		X	13.3	G	G	G	F	G	F	G	[illegible]	F	[illegible]	G	[illegible]	[illegible]		[illegible]	[illegible]	
Butte County	1	Mud Creek	X		7.3	G	G	G	G	G	G	G	[illegible]	[illegible]	[illegible]	[illegible]	G	G		[illegible]	[illegible]	
	[illegible]	Mud Creek		X	8.[illegible]	G	G	G	G	G	G	G	[illegible]	G	[illegible]	G	[illegible]					
	3	Sycamore and Sheep Hollow Creeks	X	X	4.[illegible]	[illegible]	G	G	G	G	[illegible]	[illegible]	[illegible]	[illegible]	G	G	G	[illegible]				
	4	Sycamore and Dry Creeks	X	X	2.[illegible]	[illegible]	G	G	G	G	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	G	[illegible]				
	[illegible]	Big Chico Diversion		X	1.[illegible]	G	G	G	G	G	G	G	[illegible]	[illegible]	G	G	G	[illegible]				
	6	Sacramento		X		G	-	-	G	G	-	-	-	F	F	G	-	-		[illegible]	F	[illegible] site.
	[illegible]	Sacramento		X		G	-	-	G	G	-	-	-	F	F	G	-	-		[illegible]	F	[illegible] site.

Table 4. PROJECT LEVEE MAINTENANCE ON SACRAMENTO VALLEY STREAMS IN 1974 (cont)

District or area	Unit number	Stream	Bank		Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works															Overall ratings		Remarks
			Rt	Lt		District maintenance programs	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Control of wild growth: Waterside (including rock)	Control of wild growth: Landside	Rodent control	Repair of cracks, burrows & animals	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & berms	Control of livestock grazing	Condition of pipes			Progress	Maintenance	
Named Districts																							
City of Marysville	1	Simmerly Slough		X	3.1			G															
	2	Feather		X	1.3			G								G	G	G					
	3	Yuba	X		2.3																		
City of Sacramento		Sacramento		X	3.5	G	G	G	G	G	G	G	G	G	G	G	G	F			G	G	
Eastern Honcut Creek Area (Unorganized)		Honcut Creek		X	1.5	F	F	G	G	G	G	G	G	G	-	G	G	G			G	G	This area needs to be organized.
Knights Landing Ridge Drainage District	1	Knights Landing Ridge Cut	X		6.4	G	G	G	G	G	G	F	F	G	-	G	G	G			G	G	Maintenance is greatly improved.
	2	Knights Landing Ridge Cut		X	6.1	G	G	G	G	G	G	F	F	G	-	G	G	G			G	G	
Sacramento River West Side Levee District		Sacramento	X		50.7	G	G	G	G	G	G	F	G	G	F	G	G	F			G	F	Maintenance is greatly improved.
Solano County		Yolo Bypass	X		0.6	F	F	G	F	G	G	G	G	G	-	G	F	F			F	F	Maintenance is improving.
Tehama County Flood Control District	1	Deer Creek	X		4.1	F	G	G	G	G	G	G	G	F	G	F	F	G			G	G	
	2	Deer Creek	X		1.5	F	G	G	G	G	G	G	G	G	G	G	F	G			G	G	
	3	Deer Creek			1.3	F	G	-	-	-	-	-	-	-	F	-	-	-			F	F	Channel only.
	4	Elder Creek		X	4.1	F	G	G	G	G	G	G	F	F	G	F	G	G			F	F	
	5	Elder Creek	X		4.0	F	G	G	G	G	G	G	F	F	G	F	G	G			F	F	
	6	Sacramento		X	0.5	G	-	-	G	G	-	-	-	G	G	G	-	-			G	G	Rock site - Channel only.
	7	Sacramento	X		0.8	G	-	-	G	G	-	-	-	G	G	G	-	-			G	G	"
	8	Sacramento		X	0.6	G	-	-	G	G	-	-	-	G	G	G	-	-			G	G	"
	9	Sacramento		X	0.3	G	-	-	G	G	-	-	-	G	G	G	-	-			G	G	"
	10	Sacramento	X		0.7	G	-	-	G	F	-	-	-	G	G	G	-	-			G	G	"
	11	Sacramento		X	0.5	G	-	-	G	F	-	-	-	G	G	G	-	-			F	F	"
	12	Sacramento		X	0.5	G	-	-	G	F	-	-	-	G	G	G	-	-			F	F	"
	13	Sacramento	X		0.1	G	-	-	G	G	-	-	-	G	G	G	-	-			G	G	"
	15	Sacramento		X	0.1	G	-	-	G	G	-	-	-	G	G	G	-	-			G	G	"
	16	Sacramento		X	0.4	G	-	-	G	F	-	-	-	G	G	G	-	-			G	G	"
Yolo County		Cache Creek	X		0.3	G	G	G	F	G	G	G	G	G	-	G	G	G			G	G	
Maintained by State of California																							
Sacramento River East Levee	1	Sacramento		X	20.4	G	G	G	F	F	G	G	G	G	G	G	G	G			G	G	
	2	Colusa Bypass	X		2.3	G	G	G	G	G	G	G	G	G	G	G	G	G			G	G	
	3	Colusa Bypass		X	2.3	G	G	G	G	G	G	G	G	G	G	G	G	G			G	G	
	4	Moulton Bypass	X		0.3	G	G	G	G	G	G	G	G	G	G	G	G	G			G	G	
	5	Moulton Bypass		X	1.6	G	G	G	F	G	G	G	G	G	G	G	G	G			G	G	
Wadsworth Canal	1	Wadsworth Canal		X	4.7	G	G	G	G	G	G	G	G	G	G	G	G	G					
	2	Wadsworth Canal	X		4.7	G	G	G	G	G	G	G	G	G	G	G	G	G					
Sutter Bypass		Sutter Bypass		X	22.4	G	G	G	G	G	G	G	G	G	G	G	G	G			G	G	
Feather River Hamilton Bend		Feather	X		3.4	G	G	G	G	G	G	G	G	G	G	G	G	G			G	G	

Table 4. PROJECT LEVEE MAINTENANCE ON SACRAMENTO VALLEY STREAMS IN 1974 (cont)

District or area	Unit number	Stream	Bank		Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works															Overall ratings		Remarks
			Rt	Lt		District maintenance program	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Woody plants (including rock)	Control of wild growth: Landside	Rodent control	Repair of cracks, burrows & slumps	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & gates	Control of livestock pasturing	Condition of pipes			Progress	Maintenance	
Maintained by State of California																							
Cache Creek	1	Cache Creek		X	11.8	O	O	G	G	O	O	G	G	O	O	G	G	G			G	G	
	2	Cache Creek	X		6.9	O	O	G	G	O	O	G	G	O	G	G	G	G			G	G	
	3	Settling Basin	X		1.8	O	O	G	O	O	O	O	O	O	G	O	G	G			O	O	
	4	Settling Basin		X	2.6	O	O	G	G	O	O	O	O	O	G	O	G	G			O	O	
	5	Settling Basin Extension Levee	X		3.2	O	O	G	G	O	O	O	O	O	G	G	G	G			O	O	
Sacramento Bypass	1	Sacramento Bypass	X		1.8	O	O	G	G	O	O	G	G	O	G	G	G	G			G	G	
	2	Sacramento Bypass		X	1.8	O	O	G	G	O	O	O	O	G	G	G	G	G			G	G	
West Levee Yolo Bypass	1	Yolo Bypass	X		2.7	O	O	G	O	O	O	G	G	G	G	G	G	G			G	G	
	2	Yolo Bypass	X		1.5	O	O	G	O	O	O	O	O	G	G	G	G	G			G	O	
	3	Yolo Bypass	X		1.5	O	O	G	O	O	O	O	O	O	G	G	G	G			G	O	
	4	Yolo Bypass	X		3.6	O	O	G	O	O	O	O	O	O	G	G	G	G			G	O	
East Levee Yolo Bypass		Yolo Bypass		X	2.0	O	O	G	O	O	O	G	G	O	-	O	G	G			O	O	
Willow Slough Bypass	1	Willow Slough Bypass		X	5.1	O	O	G	G	O	O	G	G	G	G	G	G	G			G	G	
	2	Willow Slough Bypass	X		7.4	O	O	G	G	O	O	G	G	G	G	G	G	G			G	G	
Putah Creek	1	Putah Creek		X	9.0	O	O	G	G	O	O	G	G	G	G	G	G	G			G	G	
	2	Putah Creek	X		7.3	O	O	G	G	O	O	G	G	G	G	G	G	G			G	G	
Tisdale Bypass	1	Tisdale Bypass		X	4.5	O	O	G	G	G	G	G	O	O	G	G	G	G			G	G	
	2	Tisdale Bypass	X		4.5	O	O	G	O	G	G	G	O	O	G	G	G	G			G	G	
Maintenance Areas																							
No. 1		Sacramento	X		17.1	G	O	G	F	F	G	G	O	G	G	O	G	G			G	G	
No. 3		Feather	X		5.2	G	O	G	G	F	F	G	O	G	G	O	F	G			G	G	
No. 4		Sacramento	X		3.4	G	O	G	G	G	G	O	O	G	G	O	G	G			G	G	
No. 5	1	Butte Creek		X	15.4	G	O	G	F	G	G	O	O	G	G	G	G	G			G	G	
	2	Butte Creek	X		16.5	G	O	G	F	G	G	O	O	G	G	G	G	G			G	G	
	3	Little Chico Creek Diversion			1.5	G	O	-	G	G	-	-	-	G	G	F	-	-			G	G	Channel only.
No. 6		Sacramento	X		6.0	G	O	G	G	G	G	G	G	G	F	G	G	G			G	G	
No. 7		Feather	X		12.1	G	O	G	F	G	F	G	O	G	G	G	G	G			G	G	
No. 9		Sacramento		X	19.6	G	O	G	F	F	G	G	G	G	F	G	G	G			G	G	
No. 10		American	X		4.3	G	O	G	G	F	G	G	G	G	F	G	G	G			G	G	
No. 11		American	X		4.0	G	O	G	F	G	G	G	G	G	G	G	G	G			G	G	
No. 12		Coluss Drain		X	11.3	G	O	G	G	O	O	G	O	G	G	G	G	G			G	G	
No. 13	1	Cherokee Canal	X		18.9	G	O	G	F	G	G	G	O	G	G	G	F	G			G	G	
	2	Cherokee Canal		X	23.1	G	O	G	F	G	G	G	O	G	G	G	G	G			G	G	

Table 5. PROJECT LEVEE MAINTENANCE ON SAN JOAQUIN VALLEY STREAMS IN 1974

District or area	Unit number	Stream	Bank		Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works				Control of wild growth										Overall ratings		Remarks
			Rt	Lt		District maintenance program	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Waterside (including rock)	Landside	Rodent control	Repair of cracks, burrows & drainwash	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & gates	Control of livestock pasturing	Condition of pipes		Progress	Maintenance	
Reclamation Districts																						
No. 1		Old River	X		1.2	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 17	1	French Camp Slough		X	1.8	G	G	G	G	F	G	G	G	G	G	F	G	G		G	G	
	2	San Joaquin	X		14.4	G	G	G	F	G	G	P	F	G	F	G	G	G		G	G	
No. 404	1	San Joaquin	X		2.3	F	F	G	F	F	F	F	F	F	G	G	G	G		F	F	
	2	French Camp Slough	X		1.8	F	F	G	G	F	G	F	F	G	G	F	G	G		F	F	
No. 524		San Joaquin		X	6.3	F	F	G	F	F	G	F	F	F	F	G	G	G		F	F	
No. 544	1	San Joaquin		X	6.1	P	F	G	F	P	F	F	F	F	F	G	G	G		P	P	
	2	Old River	X		4.2	P	F	G	F	P	F	F	F	F	F	F	G	G		P	F	
No. 1602		San Joaquin		X	6.3	G	G	G	F	G	G	P	F	G	G	G	G	G		G	G	
No. 2031	1	Stanislaus		X	7.2	G	G	G	G	G	G	F	G	G	G	G	G	G		G	G	
	2	San Joaquin	X		6.0	G	G	G	G	F	G	G	G	G	F	G	G	G		G	G	No maintenance along state highway.
No. 2058		Paradise Cut		X	6.7	G	F	G	G	F	G	G	F	F	G	G	G	G		G	G	
No. 2062	1	San Joaquin		X	2.6	G	G	G	G	G	G	G	G	G	G	[illegible]	G	G		G	G	
	2	Paradise Cut	X		4.0	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	3	Old River		X	5.6	G	G	G	G	F	G	G	G	G	G	G	G	G		G	G	
No. 2063		San Joaquin	X		10.6	G	F	G	F	G	G	G	F	F	G	F	F	G		G	F	Maintenance is improving.
No. 2064	1	San Joaquin	X		5.7	F	F	G	G	F	F	G	G	G	F	G	G	G		G	F	
	2	Stanislaus	X		6.2	F	F	G	G	P	G	G	G	G	P	G	G	G		G	F	Maintenance in this district has improved.
No. 2075		San Joaquin	X		7.5	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
No. 2085	1	San Joaquin		X	5.2	G	F	G	G	F	G	G	F	G	G	G	G	G		G	G	
	2	San Joaquin			0.7	G	F	G	G	G	G	G	G	G	G	G	G	G		G	G	Spur levee.
	3	San Joaquin			0.3	G	F	G	G	G	G	G	G	G	G	G	G	G		G	G	Spur levee.
No. 2089	1	Old River	X		1.5	G	F	G	G	F	G	G	G	F	F	G	G	G		G	G	
	2	Salmon Slough	X		1.4	G	F	F	G	G	G	G	G	F	G	G	G	G		G	G	
No. 2091	1	San Joaquin	X		7.6	G	F	G	G	G	G	F	G	G	G	G	F	G		G	G	
	2	San Joaquin			0.3	F	F	G	G	G	G	F	G	P	-	F	F	-		G	F	Spur levee.
No. 2092		San Joaquin	X		3.8	F	F	G	G	G	G	G	G	P	P	G	G	F		G	G	
No. 2094	1	San Joaquin	X		2.8	G	F	G	G	G	G	G	G	G	F	G	G	G		F	G	
	2	San Joaquin			0.5	G	F	G	G	G	F	G	G	G	F	G	G	G		F	F	Spur levee.
No. 2095	1	Paradise Cut		X	1.5	G	F	G	G	F	G	G	G	G	-	G	G	G		G	G	
	2	San Joaquin		X	3.4	G	F	G	F	F	G	G	G	G	F	F	G	G		G	G	
No. 2096		San Joaquin	X		0.2	G	F	G	G	G	G	F	G	G	G	G	G	G		G	G	New trustees have initiated a maintenance program.
No. 2099		San Joaquin		X	2.4	F	F	G	G	F	G	G	G	G	F	G	G	G		G	G	
No. 2100		San Joaquin		X	2.7	G	F	G	G	G	G	G	G	G	-	G	G	G		G	G	
No. 2101	1	San Joaquin		X	3.2	G	F	G	G	G	G	G	G	F	G	G	G	G		G	G	
	2	San Joaquin			0.3	G	F	G	G	G	G	G	G	G	G	G	G	-		G	G	Spur levee.
No. 2102		San Joaquin		X	1.8	G	F	G	G	G	G	G	G	G	F	G	G	G		G	G	
No. 2107	1	San Joaquin		X	2.4	P	P	G	F	F	G	P	P	P	F	G	G	G		P	P	District is now embarking on a maintenance program.
	2	Paradise Cut	X		1.8	P	P	G	F	P	P	G	G	G	-	F	G	G		P	P	
Named Districts																						
Fresno County Stream Group	1	Big Dry Creek Reservoir		X	7.4	G	G	G	G	G	G	G	G	G	-	G	F	G		G	G	
	2	Big Dry Creek Outlet	X		0.6	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	
	3	Little Dry Creek Outlet		X	1.3	G	G	G	G	G	G	G	G	G	-	G	G	G		G	G	

Table 5. PROJECT LEVEE MAINTENANCE ON SAN JOAQUIN VALLEY STREAMS IN 1974 (cont)

District or area	Unit number	Stream	Bank		Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works														Overall ratings		Remarks
			Rt	Lt		District maintenance program	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Control of wild growth: Waterside (including rock)	Control of wild growth: Landside	Rodent control	Repair of cracks, burrows & slipments	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & gates	Control of livestock pasturing	Condition of pipes		Progress	Maintenance	
Named Districts																						
Lower San Joaquin Levee District	1	San Joaquin	X		22.6	G	G	G	G	G	G	G	G	G	G	G	G	F	F		G	G	
	2	San Joaquin		X	13.8	G	G	G	G	G	G	G	G	G	G	G	G	F			G	G	
	3	San Joaquin	X		2.2	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	4	San Joaquin		X	1.6	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	5	East Side Bypass	X		34.8	G	G	G	G	G	G	F	F	G	G	G	G	F			G	G	
	6	East Side Bypass		X	36.4	G	G	G	G	G	G	F	F	G	G	G	G	G			G	G	
	7	Bear Creek	X		3.6	G	G	G	G	G	G	G	G	G	G	G	G	F	G		G	G	
	8	Bear Creek		X	3.6	G	G	G	G	G	G	G	G	G	G	G	G	F	G		G	G	
	9	Owens Creek	X		0.9	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	10	Owens Creek		X	0.8	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	11	Mariposa Bypass	X		3.3	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	12	Mariposa Bypass		X	3.4	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	13	Ash Slough	X		1.3	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	14	Ash Slough		X	1.3	G	G	G	G	G	G	G	G	G	G	G	G	F	G		G	G	
	15	Berenda Slough	X		2.0	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	16	Berenda Slough		X	2.0	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	17	Chowchilla Canal Bypass	X		16.1	G	G	G	G	G	G	F	F	G	G	G	G	G			G	G	
	18	Chowchilla Canal Bypass		X	15.3	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	22	East Side Canal		X	6.9	F	G	F	G	G	G	G	G	F	G	F	F	G			F	F	
	23	San Joaquin	X		10.2	G	G	G	G	G	G	F	F	G	G	G	G	G			G	G	
	24	San Joaquin		X	8.3	G	G	G	G	G	G	F	F	G	G	G	G	G			G	G	
	25	Salt Slough	X		2.9	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
Merced County Stream Group	1	Black Rascal Diversion	X		1.6	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Black Rascal Diversion		X	1.9	G	G	G	G	G	G	G	G	G	G	G	G	F	G		G	G	
	3	Owens Creek Diversion	X		1.4	G	G	G	G	G	G	F	F	G	G	F	F	G			G	G	
	4	Owens Creek Diversion		X	1.4	G	G	G	G	G	G	F	F	G	G	G	F	G			G	G	
San Joaquin County Flood Control District	1	Littlejohns Creek		X	2.9	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	2	Littlejohns Creek	X		3.9	G	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	3	Littlejohns Creek Channels			16.5	G	-	-	F	G	-	F	G	F	G	G	G	G			G	G	Channel only.
	4	North Littlejohns Creek Channels			6.1	G	-	-	F	G	-	G	G	F	G	G	G	G			G	G	Channel only.
	5	Duck Creek Diversion Channel			1.0	G	-	-	G	G	-	G	G	G	-	G	G	-			G	G	Channel only.
	6	SPRR Drain		X	0.5	G	G	G	G	G	G	G	G	G	G	G	G	G			G	G	
	7	Bear Creek	X		16.8	G	G	G	G	G	G	F	F	G	G	F	G	G			G	G	
	8	Bear Creek		X	16.5	G	G	G	G	G	G	F	F	G	G	G	G	G			G	G	
	9	Paddy Creek		X	1.6	G	G	G	G	G	G	G	G	G	G	G	G	G			G	G	
	10	Paddy Creek	X		1.4	G	G	G	G	G	G	G	G	G	G	G	G	G			G	G	

Table 5. PROJECT LEVEE MAINTENANCE ON SAN JOAQUIN VALLEY STREAMS IN 1974 (cont)

District or area	Unit number	Stream	Bank Rt	Bank Lt	Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works: District maintenance program	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Control of wild growth: Waterside (including bank)	Control of wild growth: Landside	Rodent control	Repair of cracks, burrows & animals	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & gates	Control of livestock pasturing	Condition of pipes		Overall ratings: Progress	Overall ratings: Maintenance	Remarks
Named Districts																						
San Joaquin County Flood Control District	11	North Paddy Creek	X		3.6	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	12	North Paddy Creek		X	3.9	G	G	F	G	G	G	G	G	G	G	F	G	G		G	G	
	13	Middle Paddy Creek		X	1.4	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	14	Middle Paddy Creek	X		1.4	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	15	Mormon Slough	X		25.6	G	G	G	F	G	G	G	G	F	G	G	G	G		G	G	
	16	Mormon Slough		X	23.7	G	G	G	F	G	G	F	F	F	G	G	G	G		G	G	
	17	Potter Creek	X		0.9	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	
	18	Potter Creek		X	0.9	G	G	G	G	G	G	G	G	G	G	G	G	G		G	G	

Table 6. PROJECT LEVEE MAINTENANCE ON MISCELLANEOUS STREAMS IN 1974

District or area	Unit number	Stream	Bank Rt	Bank Lt	Length of levee in miles	Compliance with federal regulations governing maintenance of flood protection works: District maintenance program	Readiness for flood emergency	Adequate levee section & grade	Adequate encroachment control	Control of wild growth: Waterside (including bank)	Control of wild growth: Landside	Rodent control	Repair of cracks, burrows & animals	Repair of erosion and caving	Condition of rock revetment	Condition of crown roadways & gates	Control of livestock pasturing	Condition of pipes		Overall ratings: Progress	Overall ratings: Maintenance	Remarks
Lake County Flood Control District	1	Middle Creek		X	7.3	G	F	G	G	F	G	G	G	G	F	G	G	G		G	G	
	2	Middle Creek	X		3.1	G	F	G	G	G	G	G	G	G	F	G	G	G		G	G	
	3	Scotts Creek		X	1.4	G	F	G	G	G	G	G	G	G	G	G	G	G		G	G	
	4	Clover Creek & Bypass	X		1.5	G	F	G	F	G	G	G	G	G	G	G	G	G		G	G	
	5	Clover Creek & Bypass		X	1.0	G	F	G	G	G	G	G	G	G	G	G	G	G		G	G	
Placer County		Truckee			0.6	F	-	-	G	G	-	-	-	-	-	-	-	-		G	G	Channel only.
Kings River Flood Control District	1	Kings River	X		5.0	G	G	G	F	G	G	G	G	F	G	F	G	G		G	G	
	2	Kings River		X	6.0	G	G	G	F	G	G	F	F	G	G	F	G	G		G	G	
	3	North Fork Kings River	X		6.0	G	G	G	F	G	G	G	G	G	G	G	G	G		G	G	
	4	North Fork Kings River		X	5.4	G	G	G	F	G	G	F	G	G	G	G	G	G		G	G	
	5	Fresno Slough	X		18.9	G	G	G	F	G	G	F	F	F	G	G	G	G		G	G	
	6	Fresno Slough		X	20.4	G	G	G	F	F	G	F	F	G	G	G	G	G		G	G	
	7	Clarks Fork	X		8.8	G	G	G	F	F	G	G	G	G	G	F	G	F		G	F	
	8	Clarks Fork		X	8.3	G	G	G	F	F	G	G	G	G	G	F	G	F		G	F	
	9	Crescent Bypass	X		5.3	G	G	G	F	G	G	G	G	G	G	G	G	G		G	G	
	10	Crescent Bypass		X	5.3	G	G	G	F	F	G	F	F	G	G	G	G	G		G	G	
	11	Kings River South	X		13.3	G	G	P	F	F	F	G	G	G	G	P	G	G		G	F	
	12	Kings River South		X	12.6	G	G	F	G	F	G	G	G	G	G	F	G	G		G	G	

Table 7. LEVEE CONSTRUCTION, 1974

Unit No.	Site Mile	Location	Maintaining Agency	Levee Mile	Description of Wor	
					Recon-struction	Rock Revetmen
SACRAMENTO RIVER FLOOD CONTROL PROJECTS						
SACRAMENTO RIVER BANK PROTECTION WORK - by The U. S. Corps of Engineers						
23	30.1	R.B. Sacramento River	RD No. 3	15.11-15.51		X
24	77.4	L.B. Sacramento River	RD No. 1000	1.30-1.52		X
	77.6	L.B. Sacramento River	RD No. 1000	1.10-1.22		X
	78.5	L.B. Sacramento River	RD No. 1000	0.21-0.36		X
	73.1	R.B. Sacramento River	RD No. 1600	2.42-2.52		X
	74.7	R.B. Sacramento River	RD No. 1600	3.98-4.20		X
	75.7	R.B. Sacramento River	RD No. 1600	5.03-5.22		X
	100.7	R.B. Sacramento River	SRWSLD	11.05-11.12		X
	101.7	R.B. Sacramento River	SRWSLD	12.10-12.28		X
	62.5	R.B. Sacramento River	M.A. No.4	0.00-0.23		X
	62.9	R.B. Sacramento River	RD No. 537	4.37-4.52		X
	94.8	R.B. Sacramento River	SRWSLD	4.81-5.45		X
	111.9	R.B. Sacramento River	SRWSLD	19.87-20.10		X
25	10.1	R.B. Georgiana Slough	RD No. 556	2.18-2.26		X
	9.5	R.B. Georgiana Slough	RD No. 556	3.00-3.11		X
	22.7	R.B. Sutter Slough	RD No. 501	1.36-1.44		X
	23.3	R.B. Sutter Slough	RD No. 501	0.80-0.90		X
	23.5	R.B. Sutter Slough	RD No. 501	0.59-0.65		X
	23.7	R.B. Sutter Slough	RD No. 501	0.20-0.35		X
	26.1	R.B. Sutter Slough	RD No. 999	1.98-2.04		X
	26.5	R.B. Sutter Slough	RD No. 999	2.31-2.37		X
	23.5	L.B. Steamboat Slough	PD No. 3	2.60-2.66		X
	23.8	L.B. Steamboat Slough	RD No. 3	2.21-2.27		X
	24.2	L.B. Steamboat Slough	RD No. 3	1.92-1.97		X
	24.3	L.B. Steamboat Slough	RD No. 3	1.76-1.80		X
	22.0	R.B. Steamboat Slough	RD No. 349	4.28-4.35		X
	22.6	R.B. Steamboat Slough	RD No. 349	3.59-3.65		X
	24.6	R.B. Steamboat Slough	RD No. 349	1.56-1.67		X
	23.5	R.B. Steamboat Slough	RD No. 349	2.53-2.59		X
	25.1	R.B. Steamboat Slough	RD No. 349	0.75-0.77		X
	22.1	L.B. Sutter Slough	RD No. 349	0.17-0.22		X
	23.2	L.B. Sutter Slough	RD No. 349	1.26-1.38		X
	23.4	L.B. Sutter Slough	RD No. 349	1.51-1.70		X
	27.9	L.B. Sutter Slough	RD No. 349	6.02-6.10		X
	15.7	R.B. Sacramento River	RD No. 3	0.80-0.90		X
26	84.3	R.B. Sacramento River	M.A. No. 6	5.64-5.75		X
	85.9	R.B. Sacramento River	M.A. No. 6	4.00-4.14		X
	93.1	R.B. Sacramento River	SRWSLD	3.29-3.57		X
	95.5	R.B. Sacramento River	SRWSLD	5.73-6.10		X
	119.5	R.B. Sacramento River	SRWSLD	27.51-27.61		X
	89.0	L.B. Sacramento River	PD No. 1500	4.71-4.99		X
	89.8	L.B. Sacramento River	RD No. 1500	5.56-5.64		X
	93.7	L.B. Sacramento River	RD No. 1500	9.57-9.67		X
	112.6	R.B. Sacramento River	SRWSLD	20.58-20.65		X
	113.2	R.B. Sacramento River	SRWSLD	21.25-21.32		X
	113.8	R.B. Sacramento River	SRWSLD	21.76-22.03		X
	114.7	R.B. Sacramento River	SRWSLD	22.64-22.74		X
	115.1	R.B. Sacramento River	SRWSLD	23.11-23.30		X
	122.1	R.B. Sacramento River	SRWSLD	30.12-30.24		X
	137.3	R.B. Sacramento River	SRWSLD	44.45-44.55		X
	137.5	R.B. Sacramento River	SRWSLD	44.75-44.84		X
	139.5	R.B. Sacramento River	SRWSLD	46.16-46.24		X
	142.9	R.B. Sacramento River	SRWSLD	49.61-49.68		X
	143.1	R.B. Sacramento River	SRWSLD	49.86-49.91		X
	114.4	L.B. Sacramento River	RD No. 1500	29.22-29.34		X
	118.4	L.B. Sacramento River	RD No. 1500	33.37-33.42		X
	120.1	L.B. Sacramento River	RD No. 1660	1.80-1.88		X
	134.7	L.B. Sacramento River	RD No. 70	3.46-3.51		X
	136.1	L.B. Sacramento River	RD No. 70	2.09-2.37		X
	142.7	L.B. Sacramento River	SRESLD	4.37-4.46		X
	145.0	L.B. Sacramento River	SRESLD	5.74-5.88		X
	147.3	L.B. Sacramento River	SRESLD	8.30-8.46		X

Table 7. LEVEE CONSTRUCTION, 1974 (Continued)

Unit No.	Site Mile	Location	Maintaining Agency	Levee Mile	Description of Work: Reconstruction	Description of Work: Rock Revetment
SACRAMENTO RIVER CHICO LANDING RED BLUFF BANK PROTECTION PROJECT						
	194.0	L.B. Sacramento River	Butte County	1,900 feet		X
	196.3	L.B. Sacramento River	Butte County	875 feet		X
	208.4	L.B. Sacramento River	Butte County	4,470 feet		X
	213.1	L.B. Sacramento River	Butte County	2,080 feet		X
EMERGENCY BANK PROTECTION WORK						
	124.5	R.B. Sacramento River	SRWSLD	32.54-32.64		X
	143.4	R.B. Sacramento River	SRWSLD	50.20-50.24		
	154.8	R.B. Sacramento River	M.A. No. 1	8.81-8.90		X
	34.0	R.B. Feather River	LD No. 9	2.50-2.62		X
EMERGENCY LEVEE RECONSTRUCTION						
	Site No.					
	1	L.B. Colusa Drain	RD No. 787	2.22-2.27	X	
	2	L.B. Colusa Drain	RD No. 787	4.17-4.24	X	
	3	L.B. Colusa Drain	RD No. 108	1.66-1.78	X	
	4	L.B. Colusa Drain	RD No. 108	2.51-2.76	X	
Appl. No.		State of California (D.O.T.)				
5209	55.8	L.B. Sacramento River	M.A. No. 9	0.00-0.34		X
5123A	56.4	L.B. Sacramento River	City of Sacto	3.00-3.20		X
		Total Miles of Rock Revetment		10.97		
		Total Miles of Reconstruction		0.49		

Table 8. FLOOD CONTROL PROJECT STRUCTURES, 1974

Structures	Maintaining Agency	Stream	Condition	Remarks
Lindo Channel Diversion Weir	Butte County	Lindo Diversion Channel	Good	
Lindo Channel Control Structure	Butte County	Lindo Channel	Good	
Big Chico Creek Control Structure	Butte County	Big Chico Creek	Good	
Little Chico Control Structure and Weir	DWR	Little Chico Creek	Good	
Moulton Weir	DWR	Moulton Bypass	Good	
Colusa Weir	DWR	Colusa Bypass	Good	
Tisdale Weir	DWR	Tisdale Bypass	Fair	
Fremont Weir	DWR	Yolo Bypass	Fair	
Sacramento Weir	DWR	Sacramento Bypass	Fair	Numerous cracks in concrete portion of structure.
Sutter Pumping Plant No. 1	DWR	Sutter Bypass	Fair	
Sutter Pumping Plant No. 2	DWR	Sutter Bypass	Fair	
Sutter Pumping Plant No. 3	DWR	Sutter Bypass	Fair	Plant being considered for replacement.
Butte Slough Outfall Structure	DWR	Butte Slough	Fair	
Knights Landing Outfall Structure	DWR	Colusa Basin Drainage Canal	Fair	
Nelson Bend Quarry Rock Weir	DWR	Feather River	Good	
Yolo Bypass Cobble Weir	DWR	Yolo Bypass	Good	Top of weir raised by 2 feet.
Clover Creek Outlet Structure	Lake County FCD	Clover Creek	Good	
Middle Creek Pumping Plant	Lake County FCD	Middle Creek	Fair	The surge box continues to settle.
Highland Canal Diversion Weir & Drainage Structure	Lake County FCD	Middle Creek	Good	

Table 8. FLOOD CONTROL PROJECT STRUCTURES, 1974 (continued)

Structures	Maintaining Agency	Stream	Condition	Remarks
Magpie Creek Pumping Plant	American River FCD	Natomas East Canal	Good	Increased pumping demand expected.
American River Pumping Plant No. 1	Sacramento County	American River	Good	
American River Pumping Plant No. 2	Sacramento County	American River	Good	
Elk Slough Outlet Structure	RD No. 150	Elk Slough	Good	
Mormon Slough Pumping Plant No. 1	San Joaquin County	Mormon Slough	Good	
Mormon Slough Pumping Plant No. 2	San Joaquin County	Mormon Slough	Good	
Mormon Slough Pumping Plant No. 3	San Joaquin County	Mormon Slough	Good	
Duck Creek Diversion Structures	San Joaquin County	Duck Creek	Good	Not previously inspected for this report.
Paradise Dam	None	Paradise Cut	Fair	No significant change in elevation.
Wetherbee Lake Pumping Plant and Navigation Gate	RD No. 2096	San Joaquin River	Good	General maintenance is required.
Gomes Lake Pumping Plant	Turlock Irrigation District	San Joaquin River	Fair	Maintenance improvement noted.
RD No. 2063 Pumping Plant	RD No. 2063	San Joaquin River	Fair	
Black Rascal Creek Drop Structure	Merced County	Bear Creek	Good	
Owens Creek Siphon Structure	Merced County	Owens Creek	Good	
Bear Creek Diversion Structure	Lower San Joaquin Levee District	Bear Creek	Fair	No significant change in previously reported erosion.
San Joaquin River Diversion Structure	Lower San Joaquin Levee District	San Joaquin River	Good	
Fresno River Drainage Structure	Lower San Joaquin Levee District	San Joaquin River	Good	
Ash Slough Drop Structure No. 1	Lower San Joaquin Levee District	Ash Slough	Good	

Table 8. FLOOD CONTROL PROJECT STRUCTURES, 1974 (continued)

Structures	Maintaining Agency	Stream	Condition	Remarks
Ash Slough Drop Structure No. 2	Lower San Joaquin Levee District	Ash Slough	Good	
Ash Slough Drop Structure No. 3	Lower San Joaquin Levee District	Ash Slough	Good	
Ash Slough Drop Structure No. 4	Lower San Joaquin Levee District	Ash Slough	Good	
Mariposa Bypass Drop Structure	Lower San Joaquin Levee District	Mariposa Bypass	Good	
Eastside Bypass Drop Structure	Lower San Joaquin Levee District	Eastside Bypass	Fair	Deterioration of concrete on the floor of the stilling basin.
Chowchilla Bypass Drop Structure	Lower San Joaquin Levee District	Chowchilla Bypass	Good	
Mariposa Bypass Automatic Control Structure	Lower San Joaquin Levee District	Mariposa Bypass	Good	
Eastside Bypass Control Structure	Lower San Joaquin Levee District	Eastside Bypass	Good	
Chowchilla Bypass Control Structure	Lower San Joaquin Levee District	Chowchilla Bypass	Good	
San Joaquin River Control Structure	Lower San Joaquin Levee District	San Joaquin River	Good	
Little Dry Creek Drop Structure No. 1	Fresno Irrigation District	Little Dry Creek Outlet Channel	Good	
Little Dry Creek Drop Structure No. 2	Fresno Irrigation District	Little Dry Creek Outlet Channel	Good	
Little Dry Creek Drop Structure No. 3	Fresno County	Little Dry Creek Outlet Channel	Good	
Little Dry Creek Drop Structure No. 4	Fresno County Irrigation District	Little Dry Creek Outlet Channel	Good	
Little Dry Creek Drop Structure No. 5	Fresno County	Little Dry Creek Outlet Channel	Good	
Little Dry Creek Outlet Wasteway	Fresno County Irrigation District	Little Dry Creek Outlet Channel	Good	
Reservoir Spillway	Fresno County Irrigation District	Big Dry Creek Reservoir	Good	No flow to date.
Dog Creek Outlet Control Structure	Fresno County Irrigation District	Dog Creek	Good	
Big Dry Creek Outlet Control Structure	Fresno County Irrigation District	Big Dry Creek	Good	
Little Dry Creek Outlet Control Structure	Fresno County Irrigation District	Little Dry Creek	Good	

Table 9. CHANNEL CLEARANCE AND CONDITION, 1974

Stream	Maintaining Agency	Clearance, in acres		Overall Condition of Channel
		Reclear	Brush Control	
SACRAMENTO VALLEY FLOOD CONTROL PROJECTS				
American River	DWR	0	0	Satisfactory
Arcade Creek	DWR	2	2	Satisfactory
Bear River	DWR	263	0	Satisfactory
Butte Creek	DWR	0	0	Satisfactory
Butte Slough (to Mawson B.)	DWR			Satisfactory
Cache Creek	DWR	65	0	Satisfactory
Cache Creek Settling Basin	DWR			Satisfactory
Cherokee Canal	DWR	109	0	Satisfactory
Big Chico Creek	DWR	0	30	Satisfactory
Big Chico Creek Diveraion	DWR	0	0	Satisfactory
Little Chico Creek	DWR	0	0	Satisfactory
Colusa Basin Drain	DWR	0	0	Satisfactory
Colusa Bypass	DWR	200	0	Satisfactory
Deer Creek	DWR	145	0	Satisfactory
Dry Creek (Bear River)	DWR			Satisfactory
Elder Creek	DWR	0	0	Satisfactory
Feather River	DWR	0	690	Satisfactory
Honcut Creek	DWR	0	0	Satisfactory
Knights Landing Ridge Cut	DWR	0	0	Satisfactory
Linda Creek	DWR			Satisfactory
Lindo Creek	DWR			Satisfactory
Magpie Creek	DWR			Satisfactory
McClure Creek	Tehama County			Satisfactory
Mud Creek	DWR			Satisfactory
Natomas Cross Canal	DWR	0	0	Unsatisfactory
Natomas East Canal	DWR			Satisfactory
Putah Creek	DWR	0	0	Satisfactory
Sacramento Bypass	DWR	10	114	Satisfactory
Sacramento River	DWR	452	21	Satisfactory
Salt Creek	Tehama County			Satisfactory
Sutter Bypass (Mawson B.-South)	DWR	150	30	Satisfactory
Tisdale Bypass	DWR	0	164	Satisfactory
Wadsworth Canal	DWR	10	0	Satisfactory
Western Pacific Interceptor	DWR			Satisfactory
Willow Slough	DWR	0	0	Satisfactory
Yolo Bypass	DWR	150	150	Satisfactory
Yuba River	DWR	101	101	Satisfactory
SAN JOAQUIN VALLEY FLOOD CONTROL PROJECTS				
Ash Slough	LSJLD			Satisfactory
Bear Creek (Merced County)	LSJLD			Satisfactory
Bear Creek (Merced County)	MID	35	167	Satisfactory
Bear Creek (San Joaquin County)	SJCFCD	6	100	Satisfactory
Berenda Slough	LSJLD			Satisfactory
Big Dry Creek	FID			Satisfactory
Black Rascal Creek Diversion	MID		92	Satisfactory
Burns Creek	MID			Unsatisfactory
Chowchilla Bypass	LSJLD		290	Satisfactory
Dog Creek	FID			Satisfactory
Duck Creek Diveraion	SJCFCD			Satisfactory
Eastside Bypass	LSJLD		290	Satisfactory
French Camp Slough	None			
Little Dry Creek	FID			Satisfactory
Littlejohns Creek	SJCFCD	18	100	Satisfactory
Mariposa Bypass	LSJLD			Satisfactory
Mariposa Creek	MID	10	1	Satisfactory
Miles Creek	MID	0	8	Satisfactory
Mormon Slough	SJCFCD	8	125	Satisfactory
Owens Creek	LSJLD			Satisfactory
Owens Creek Diversion	MID			Satisfactory
Paradise Cut	None			Unsatisfactory
San Joaquin River (Merced River to Mossdale)	None			Satisfactory
San Joaquin River (Merced River to Mendota Dam)	LSJLD	480		Satisfactory
San Joaquin River (Mendota Dam to Chowchilla Canal Bypass)	None			Satisfactory
San Joaquin River (Chowchilla Canal Bypass to Gravelly Ford)	LSJLD	0		Satisfactory
Stanislaus River	None			Unsatisfactory
MISCELLANEOUS FLOOD CONTROL PROJECTS				
Middle Creek and Tributaries	DWR	60	212	Satisfactory
Truckee River	Placer County			Satisfactory
TOTAL		2,274	2,687	

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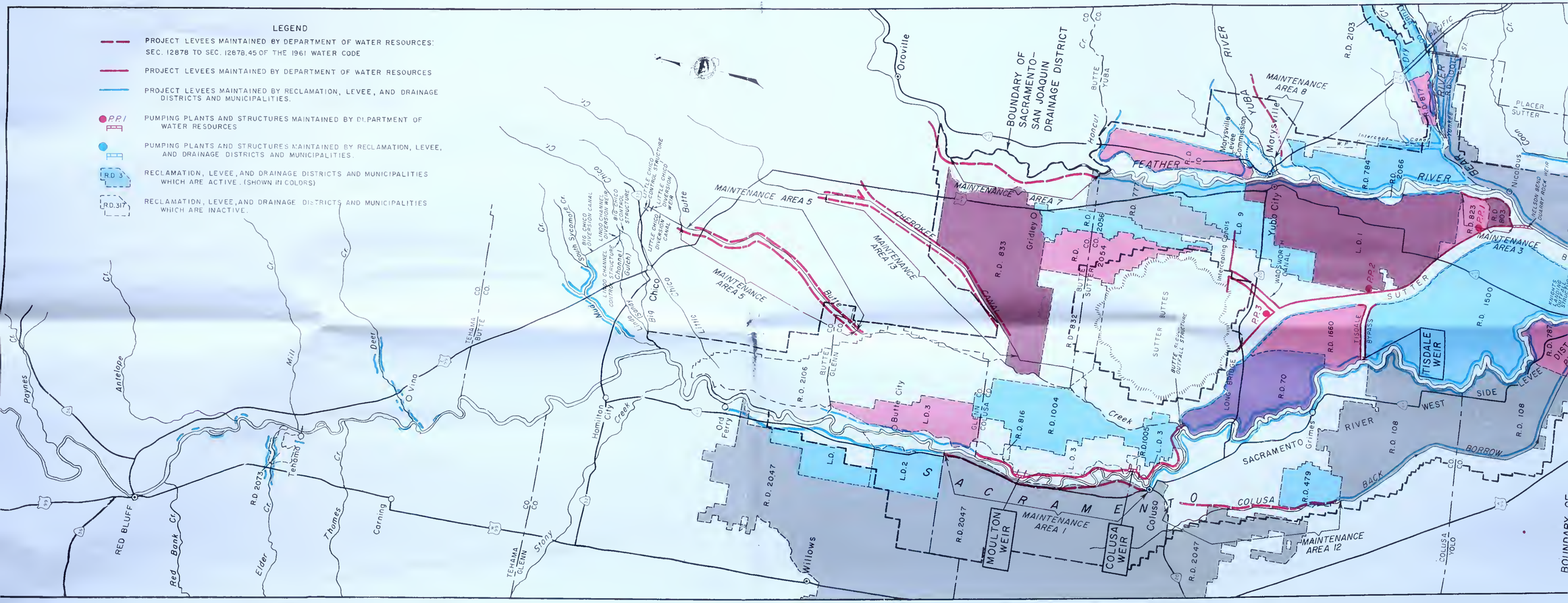
SACRAMENTO AND SAN JOAQUI
FLOOD CONTROL PROJE



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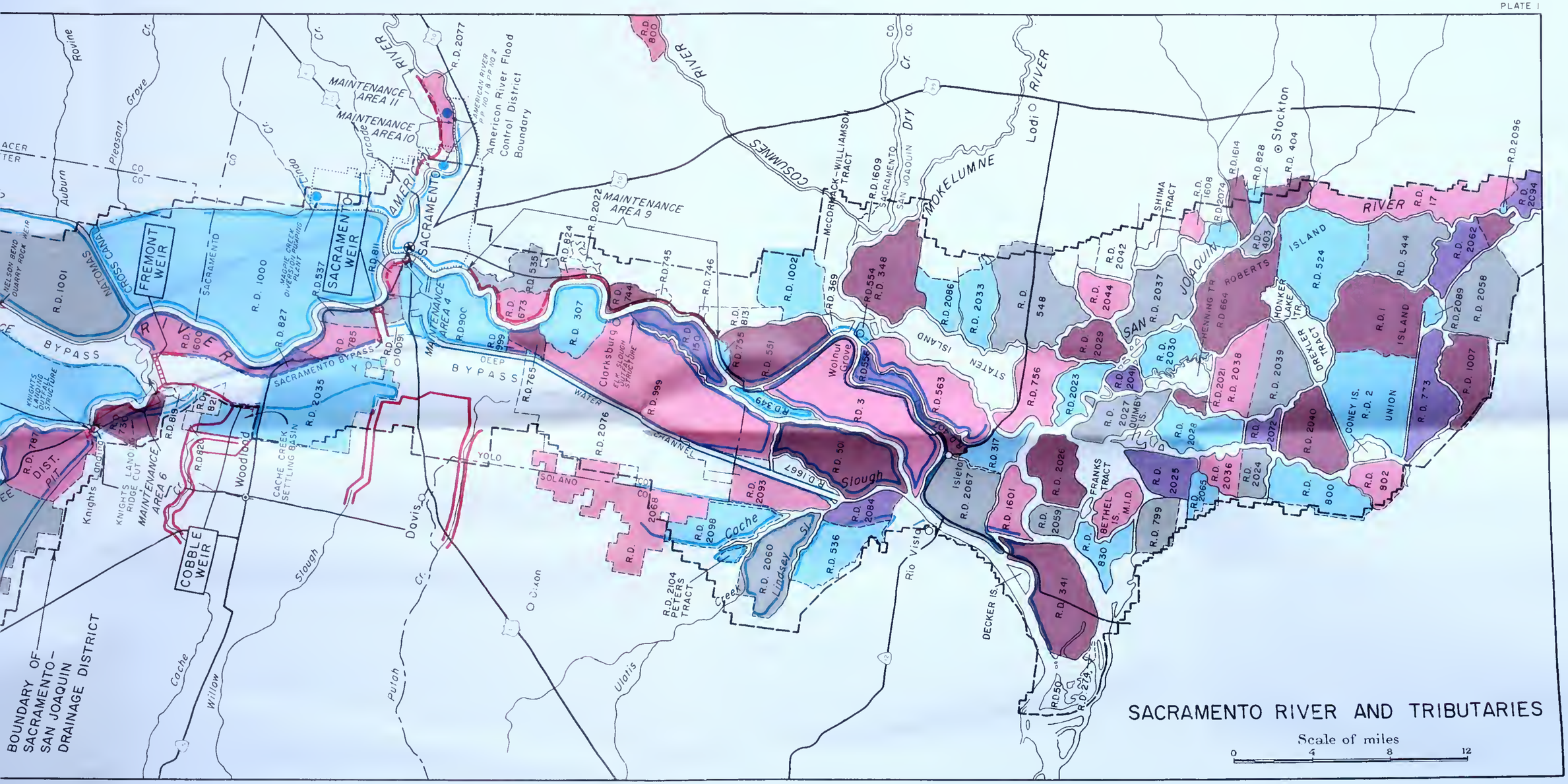
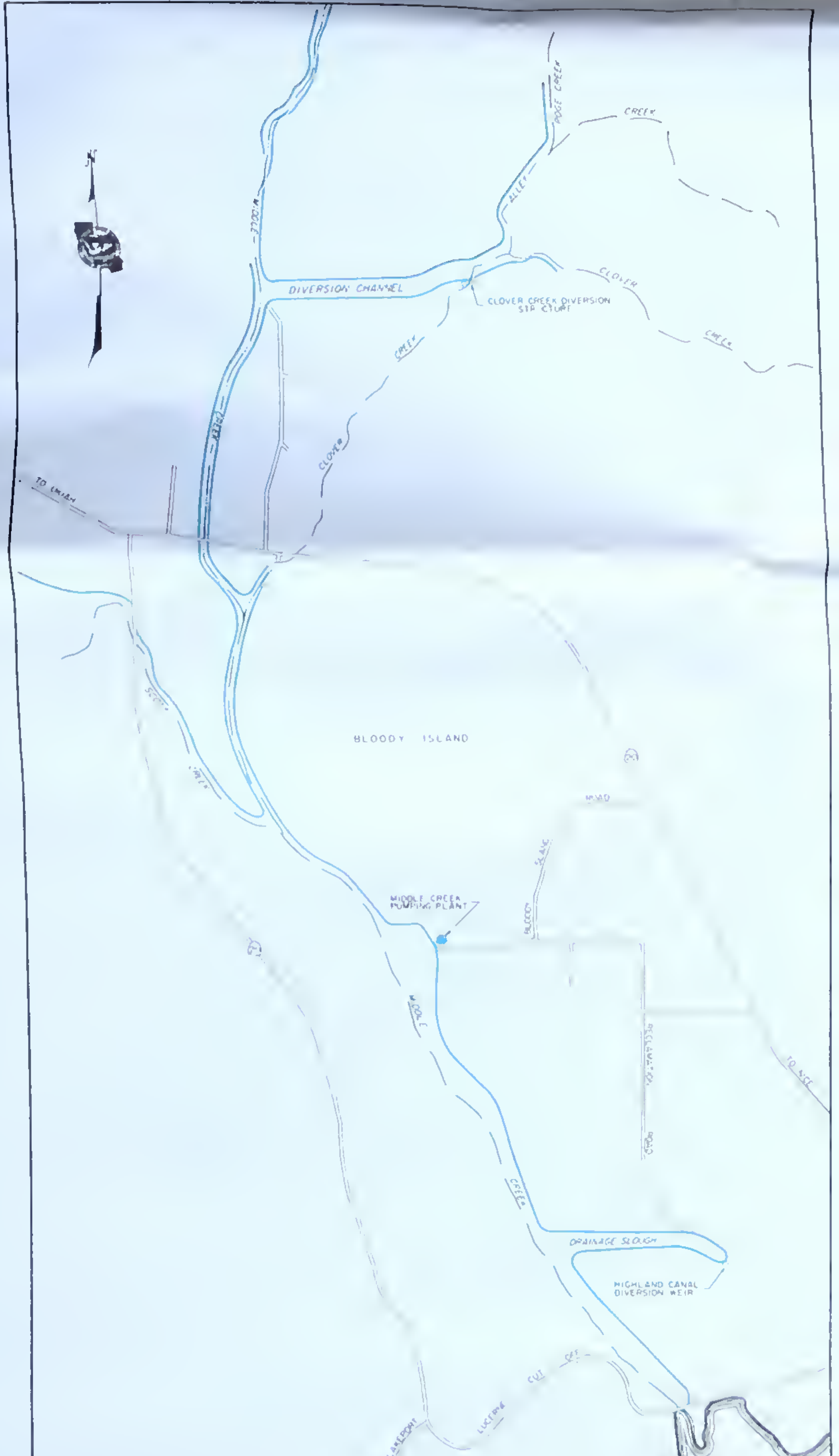
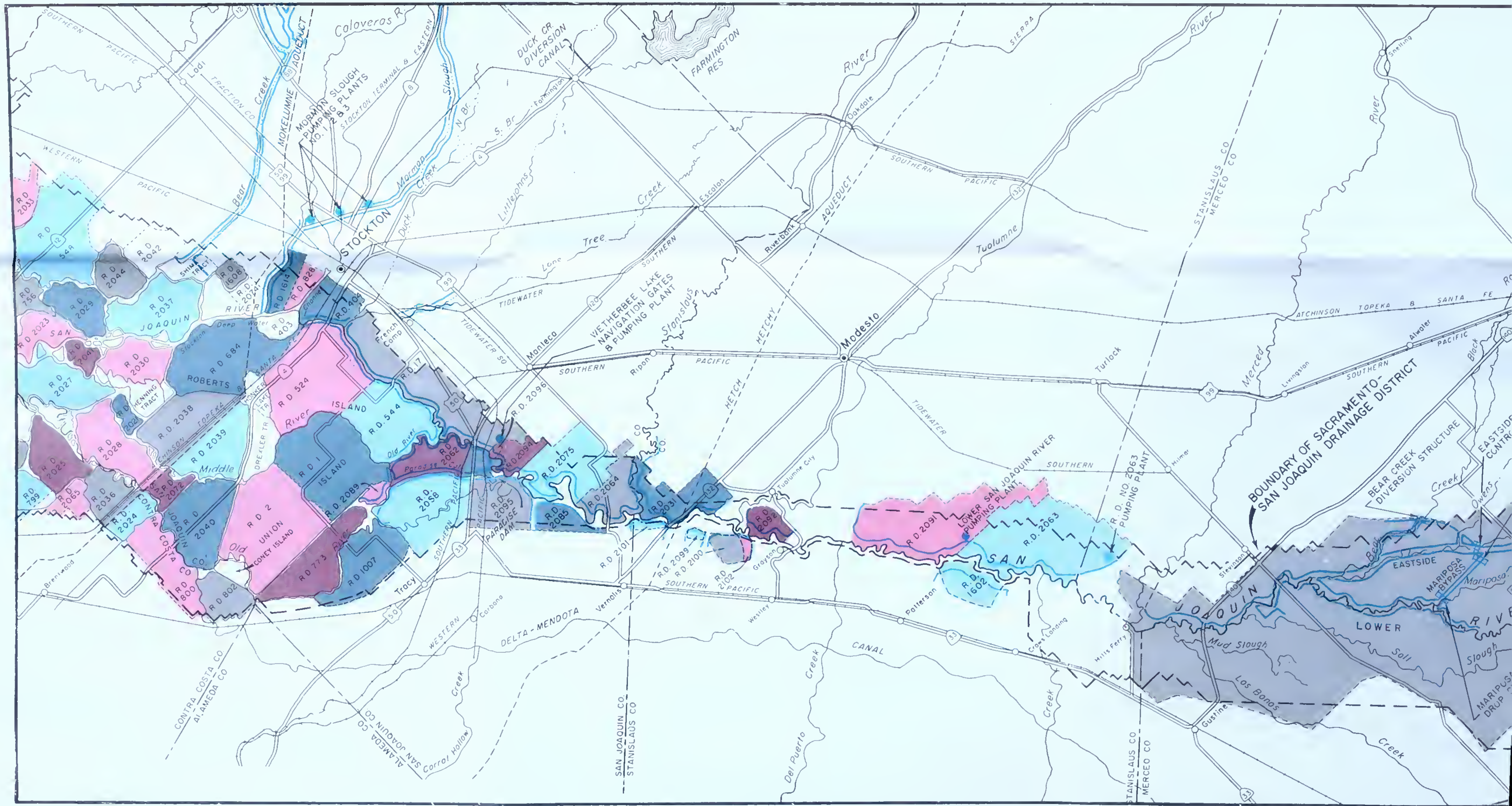
PROJECT WORKS AND MAINTAINING AGENCIES - 1973-74

PLATE I





MIDDLE CREEK AND TRIBUTARIES



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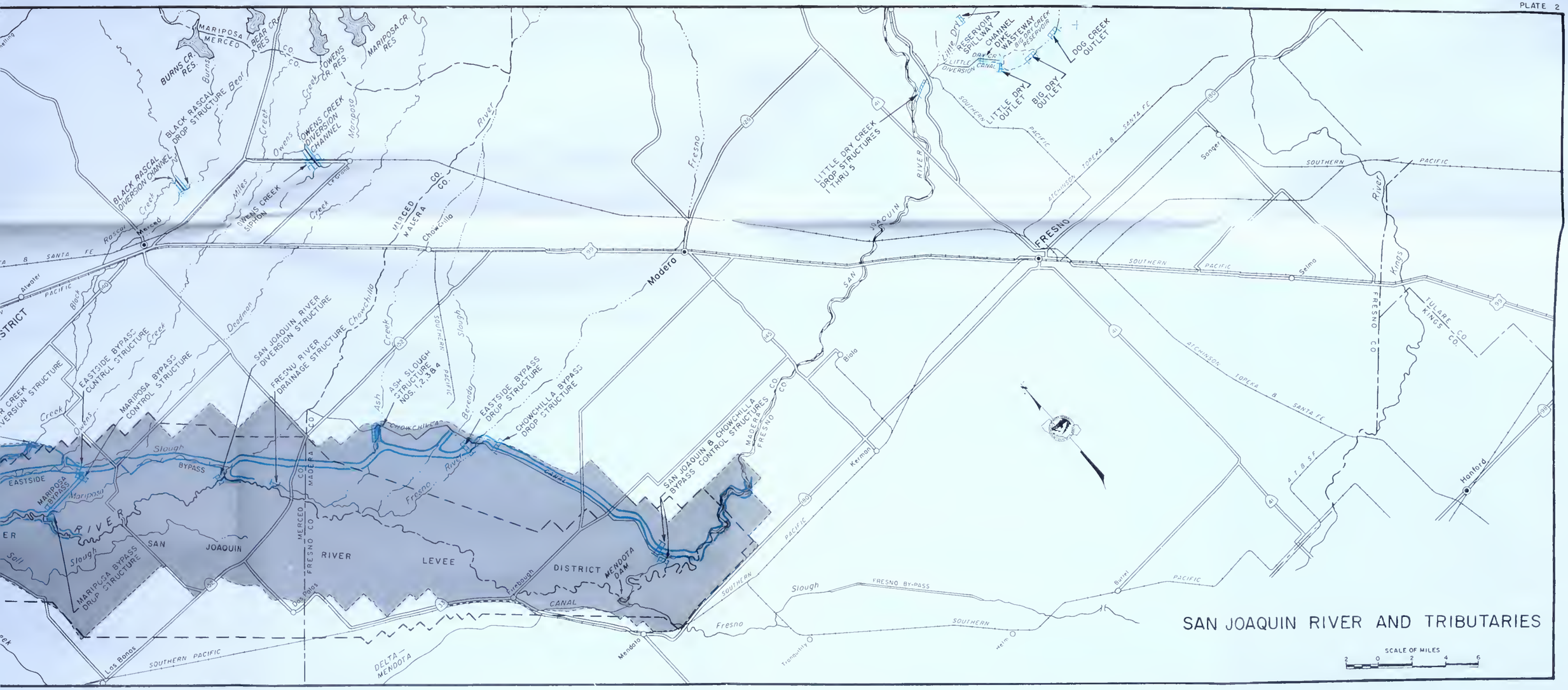
MARIPOSA CO.
MERCED CO.
BURNS CR. RES.
BEAR CR. RES.
OWENS CR. RES.
MARIPOSA CR. RES.
BLACK RASCAL DROP STRUCTURE
BLACK RASCAL DIVERSION CHANNEL
OWENS CREEK DIVERSION CHANNEL
OWENS CREEK SIPHON
LITTLE DRY RESERVOIR SPILLWAY
CHANNEL
DIKE
WASTEWAY
BIG DRY CREEK RESERVOIR
LITTLE DRY DIVERSION CANAL
LITTLE DRY OUTLET
BIG DRY OUTLET
DOG CREEK OUTLET
LITTLE DRY CREEK DROP STRUCTURES 1 THRU 5
MERCED CO.
MADERA CO.
Merced
Madera
Chowchilla
Fresno
FRESNO
Sanger
Selma
Kingsburg
Hanford
Visalia
Alwater
Atwater
Delhi
Livingston
Dos Palos
Los Banos
Mendota
Firebaugh
Kerman
Biola
Tranquility
Helm
Burrel
SOUTHERN PACIFIC
ATCHISON TOPEKA & SANTA FE
EASTSIDE BYPASS CONTROL STRUCTURE
MARIPOSA BYPASS CONTROL STRUCTURE
SAN JOAQUIN RIVER DIVERSION STRUCTURE
FRESNO RIVER DRAINAGE STRUCTURE
ASH SLOUGH STRUCTURE NOS. 1, 2, 3 & 4
EASTSIDE BYPASS DROP STRUCTURE
CHOWCHILLA BYPASS DROP STRUCTURE
SAN JOAQUIN & CHOWCHILLA BYPASS CONTROL STRUCTURES
MARIPOSA BYPASS DROP STRUCTURE
EASTSIDE BYPASS
MARIPOSA BYPASS
CHOWCHILLA BYPASS
SAN JOAQUIN RIVER
FRESNO RIVER
LEVEE DISTRICT
MENDOTA DAM
CANAL
FRESNO BY-PASS
DELTA-MENDOTA CANAL
SAN JOAQUIN RIVER AND TRIBUTARIES
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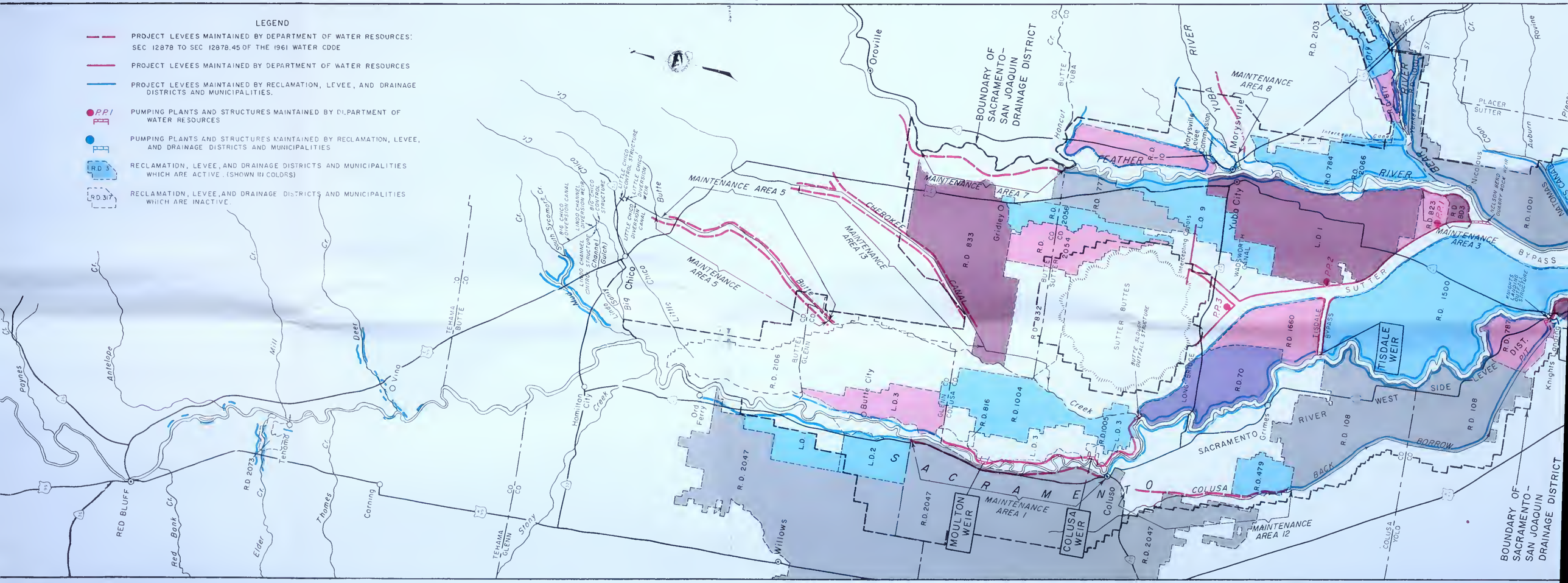
SACRAMENTO AND SAN JOAQUIN FLOOD CONTROL PROJEC



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PROJECT WORKS AND MAINTAINING AGENCIES - 1973-74

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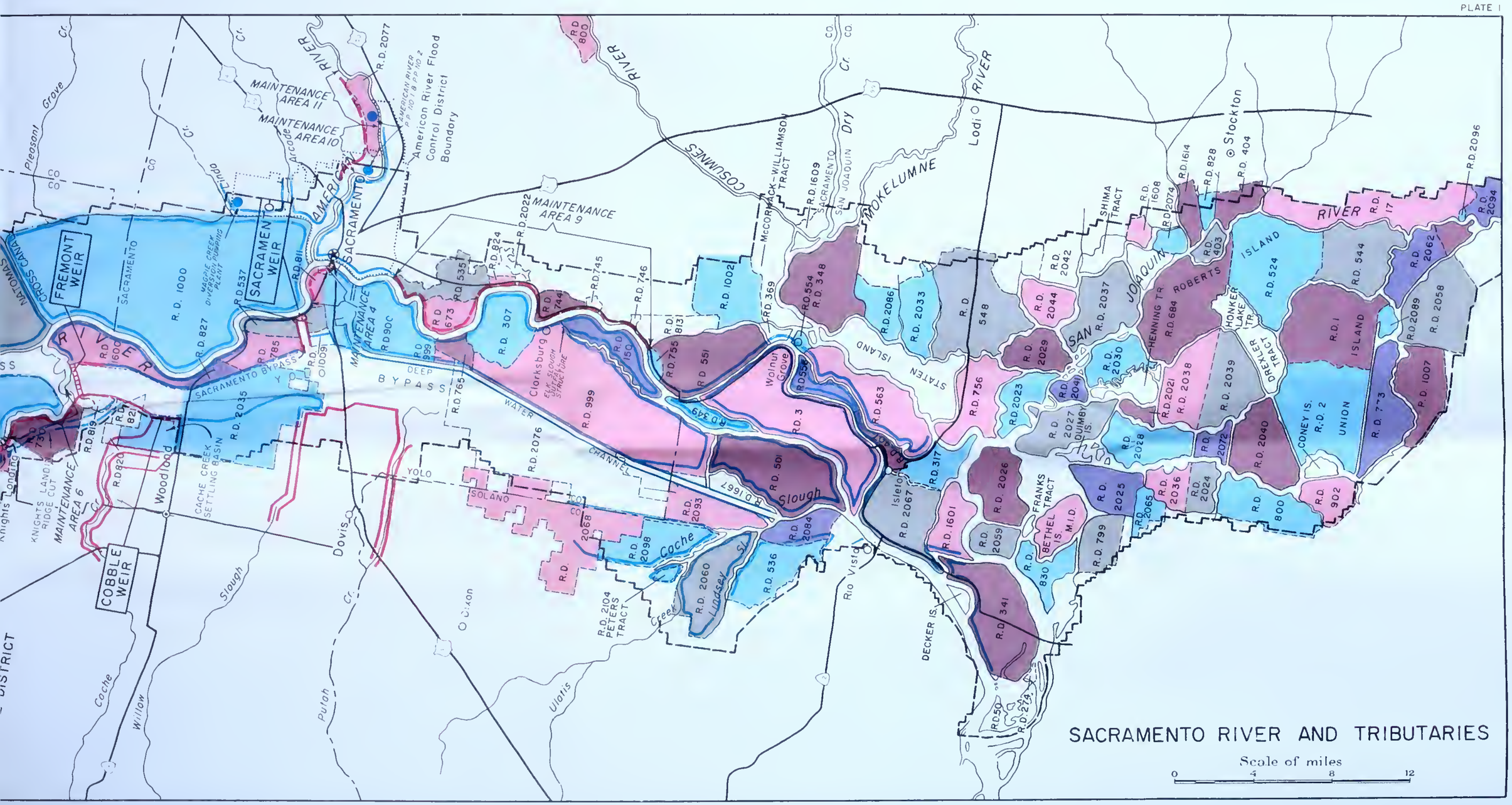
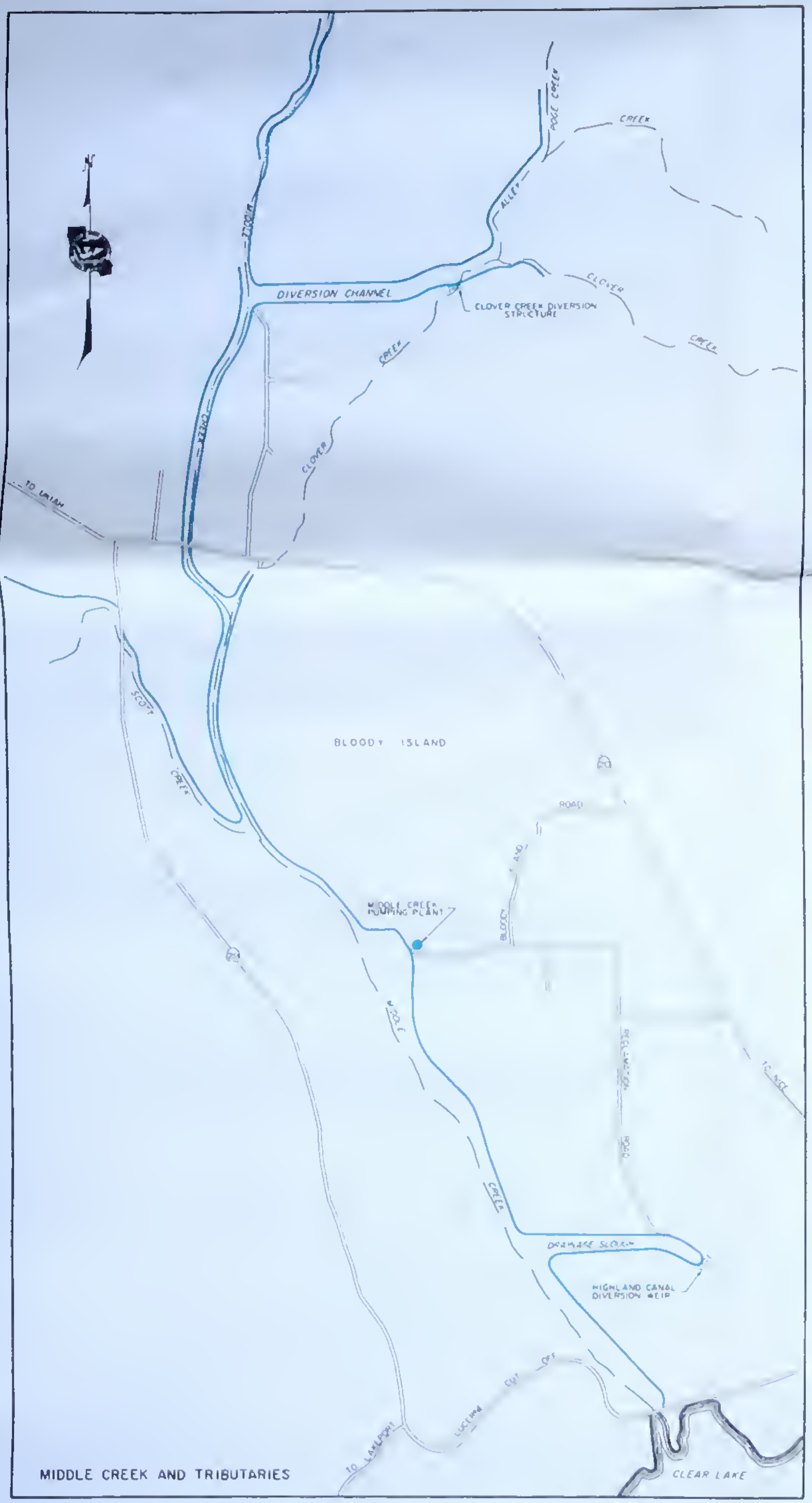
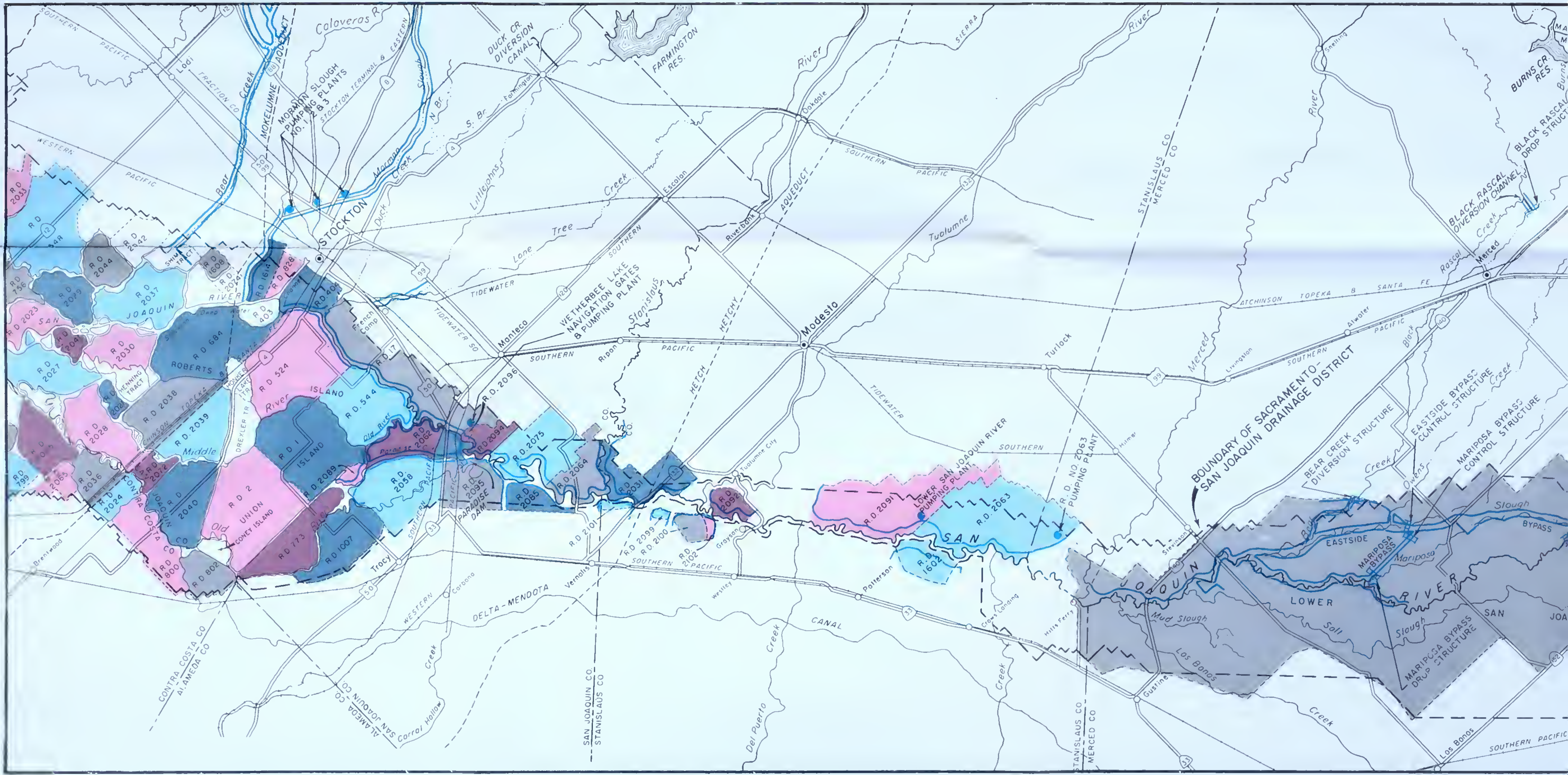




MIDDLE CREEK AND TRIBUTARIES



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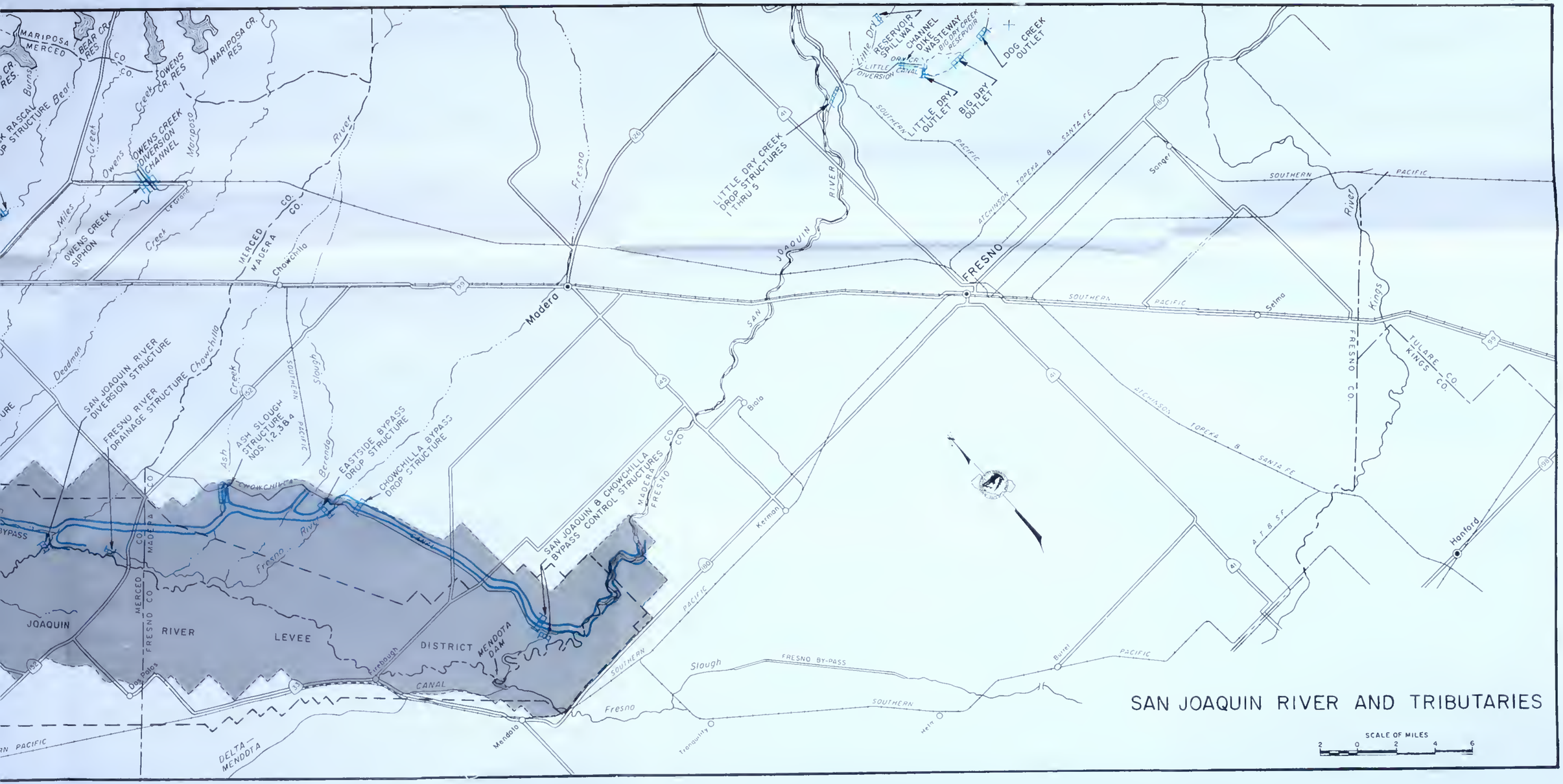

SAN JOAQUIN RIVER AND TRIBUTARIES

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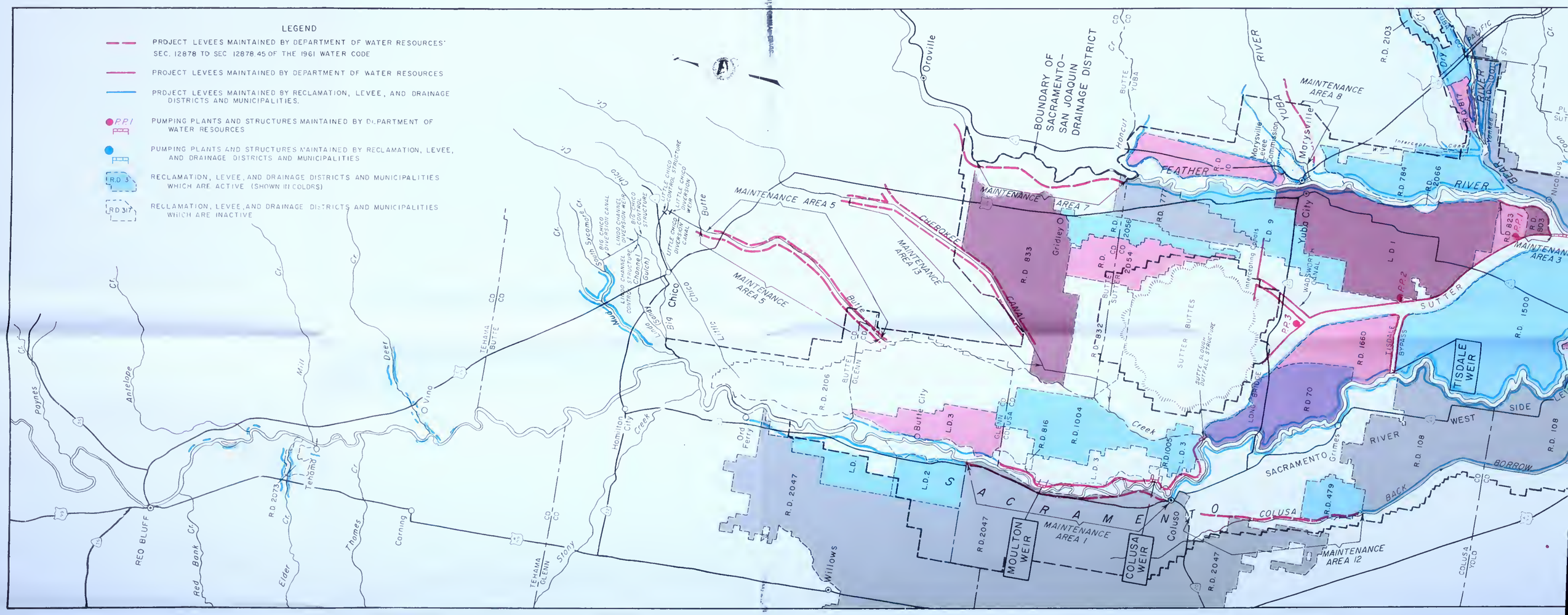

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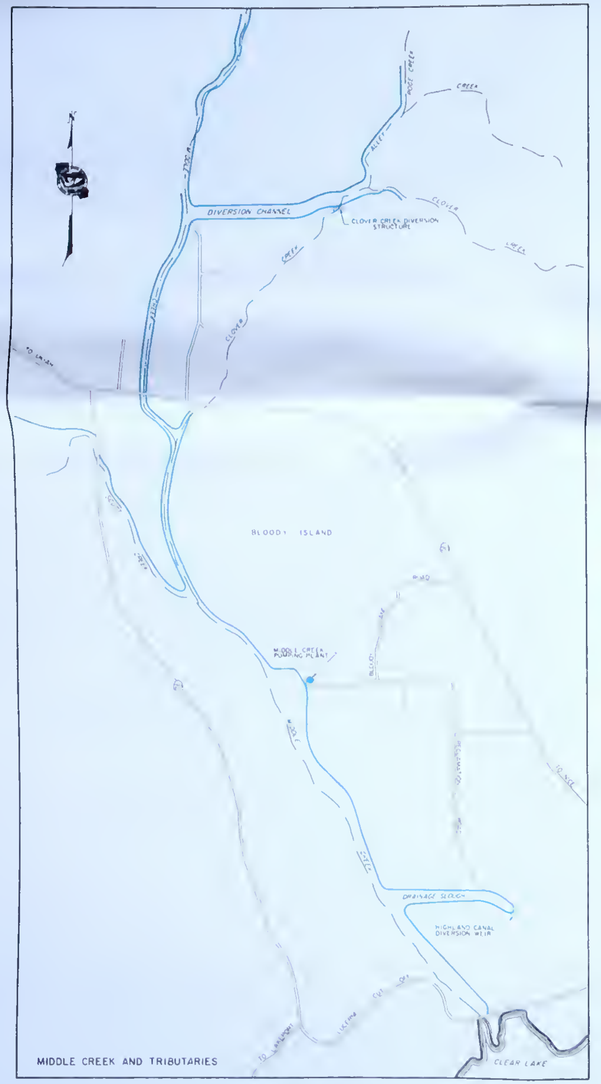

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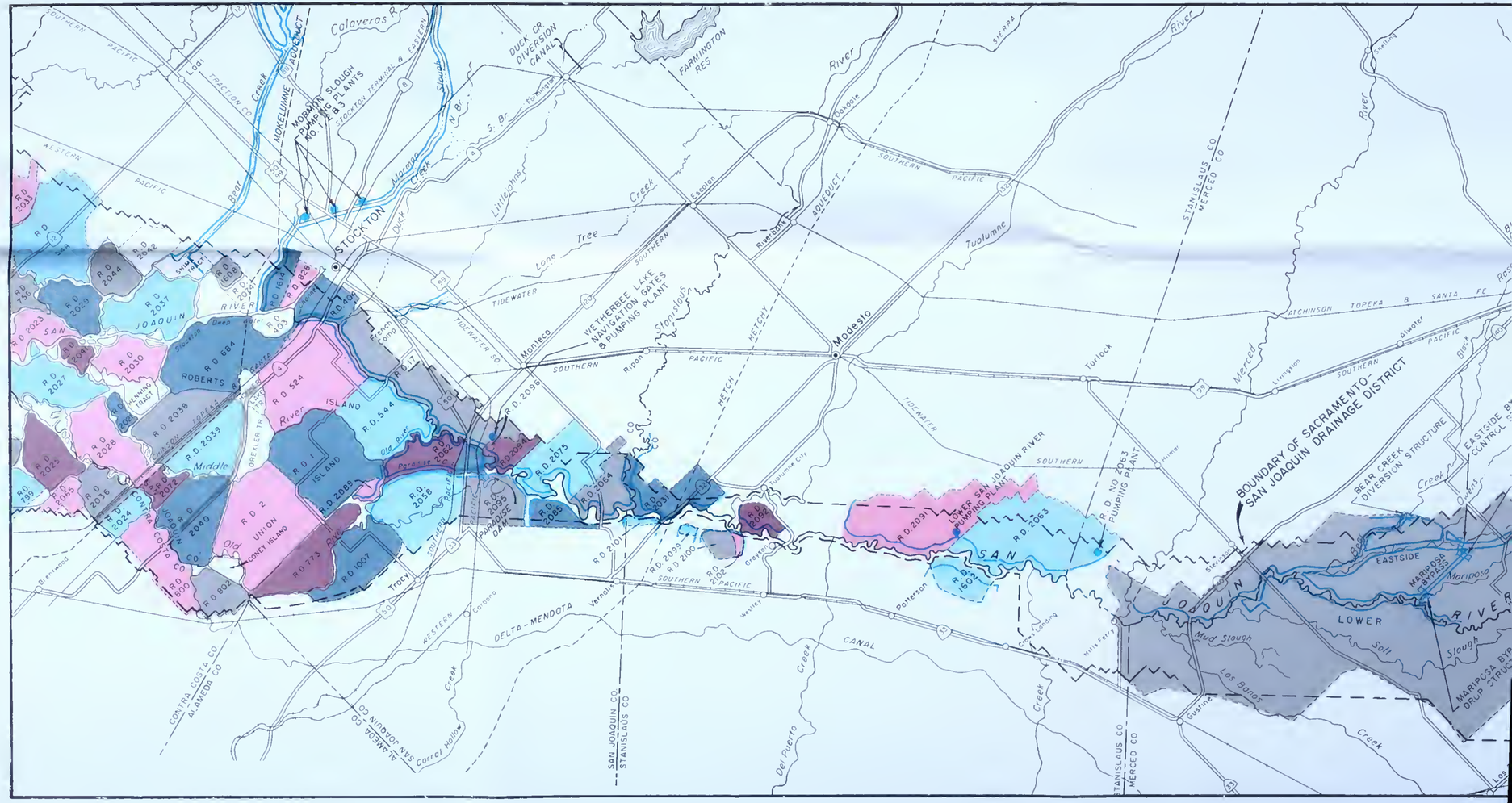

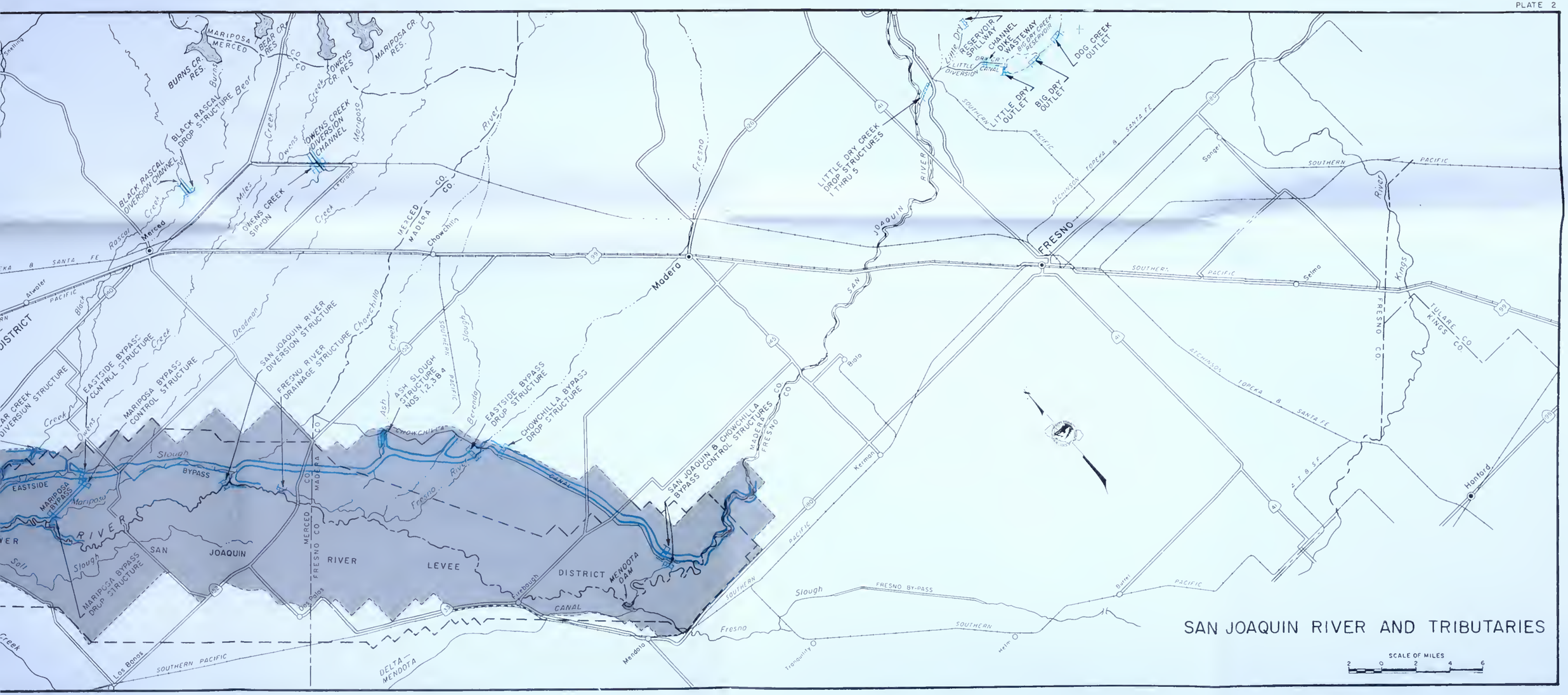

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